

# ENR THE TOP 500

NUMBER 29

## TRIANGLES

Perkins+Will is designing the School of Continuing Studies at York University, North York, Ontario.



## No Signs That the Hot Market Will Cool Off Anytime Soon

The market for major design firms is growing and is poised to continue to grow for the foreseeable future, but the sense of euphoria seen last year has faded. One year ago, most firms expected a burst of new business from tax cuts, deregulation and a promised infrastructure bill in the wake of the election of President Donald Trump. Now, design firms are focusing more on their key markets and systems to deliver their services as efficiently as possible.

This more focused attitude among large design firms stems from disappointment that the major infrastructure pack-

age originally proposed by the Trump administration has not made any headway in Congress. Further, there is some doubt about how much a bill so heavily reliant on local public contributions and private funding will work over the long haul.

There also is concern about the impact the administration's tariffs will have on the cost of construction, and worry that technology will not blunt the impact of looming staff shortages on both the design and construction sides.

However, the domestic market continues to grow, as can be seen in the data from ENR's Top 500 Design Firms list.

Taken as a group, the Top 500 firms had record design revenue of \$93.90 billion in 2017, up 1.1%, from \$92.84 billion in 2016. Market growth climbed on the domestic side, rising 3.1%, to \$73.97 billion in 2017 from \$71.69 billion in 2016. But revenue from projects outside the U.S. dropped 7%, to \$19.93 billion.

The international downturn in revenue largely resulted from a drop in design work in the oil and gas sector, which fell 13.0%, to \$4.7 billion in 2017 from \$5.4 billion in 2016, and in the buildings market, which fell 8.1%, to \$3.7 billion in 2017 from \$4.1 billion in 2016. However, oil prices have now risen to nearly \$70/bbl, and there is speculation that they could eventually top \$100/bbl, giving some hope to firms in that market.

The continuing consolidation among firms remained one of the biggest stories of 2017. The scale of the companies acquired has grown exponentially compared to the past couple of years. Jacobs' acquisition of last year's No. 3 firm, CH2M, was enough to push it to No. 1 on this year's Top 500, moving AECOM down to No. 2 for the first time in nine years.

In another big acquisition, Wood Group bought last year's No. 7 design firm, AMEC-Foster Wheeler. The merger leaves Wood with a broader geographic reach and gives it access to markets beyond its base market in oil and gas.

Canada's SNC-Lavalin also made a splash, acquiring Atkins plc. While SNC-Lavalin had a presence in the U.S. market, Atkins North America broadens the scope and depth of that presence.

More recently, shareholders of CB&I and Houston-based engineer-contractor McDermott International voted on May 2 to approve a merger between the two oil and gas giants. ■

## How To Read the Tables

### KEY TO TYPE OF FIRM

**A** architect, **E** engineer, **EC** engineer-contractor, **AE** architect-engineer, **EA** engineer-architect, **ENV** environmental, **GE** geotechnical engineer, **L** landscape architect, **P** planner and **O** other. Other combinations are possible. Firms classified themselves.

**Companies** are ranked according to revenue for design services performed in 2016 in \$ millions of dollars (\*). Those with subsidiaries are indicated by (†). For information on subsidiaries and where each firm worked outside of the U.S., see ENR.com. \*\*Firms not ranked last year. Some markets may not add up to 100% due to omission of "other" miscellaneous market

categories and rounding. NA=Not available.

**General Building** as a category includes commercial buildings, offices, stores, educational facilities, government buildings, hospitals, medical facilities, hotels, apartments, housing, etc.

**Hazardous Waste** includes chemical and nuclear waste treatment, asbestos and lead abatement, etc.

**Industrial Process** comprises pulp and paper mills, steel mills, nonferrous metal refineries, pharmaceutical plants, chemical plants, food and other processing plants, etc.

**Manufacturing** includes auto plants, electronic assembly, textile plants, etc.

**Petroleum** includes refineries, petrochemical plants, offshore facilities, pipelines, etc.

**Power** comprises thermal and hydroelectric power plants, waste-to-energy plants, transmission lines, substations, cogeneration plants, etc.

**Sewerage / Solid Waste** includes sanitary and storm sewers, treatment plants, pumping plants, incinerators, industrial waste facilities, etc.

**Telecommunications** comprises transmission lines and cabling, towers and antennae, data centers, etc.

**Transportation** includes airports, bridges, roads, canals, locks, dredging, marine facilities, piers, railroads, tunnels, etc.

**Water Supply** includes dams, reservoirs, transmission pipelines, distribution mains, irrigation canals, desalination and potability treatment plants, pumping stations, etc.



**DOMED VIEWS** The Raiders' stadium features horseshoe seating open on one end for views of Las Vegas.

# NFL Stadium Surge

Las Vegas stadium is one of several under construction

The Las Vegas Raiders stadium broke ground in November, joining a growing list of major stadium projects underway in the U.S. The project was designed by Manica Architecture with HNTB serving as architect of record. Major design subconsultants include civil engineer Kimley-Horn, structural engineer ARUP and MEP engineer SSR. The \$1.9-billion project, which includes \$750 million in public funding, will serve as the new home of the NFL's Raiders, who are relocating from Oakland, Calif. The stadium features a horseshoe-shaped seating arrangement that is open on one end, offering views of the Las Vegas Strip. The domed stadium includes 65,000 seats and is designed to be expandable to 72,000 for major events such as the Super Bowl. A 120-ft-tall tower will house a "flaming cauldron" in honor of former owner Al Davis. The stadium is currently targeted for completion in time for the 2020 NFL season. Other major stadiums expected to open in 2020 include the Los Angeles Stadium and Entertainment District at Hollywood Park in Inglewood, Calif. and Globe Life Field in Arlington, Texas. ■

*By Bruce Buckley*



## HKS NORTH TORREY PINES

HKS and Clark Construction lead the design-build team of the 1.5-million-sq-ft Living and Learning campus at UC San Diego. The neighborhood will house 2,000 students and feature seven mixed-use buildings. Designed to achieve LEED v3 Platinum, the project, which broke ground in June 2018, is scheduled for completion in summer 2020.

## Gensler Post Office Repurposing

Chicago's old main Post Office is undergoing a restoration and repositioning as Class A office space. The 2.5-million-sq-ft building, designed by Gensler, features 250,000-sq-ft floorplates and 18-ft-high ceilings. Amenities include a 4-acre roof park, riverfront lawn, entertainment lounges, fitness center and public food hall.

## HDR Ambitious Patient Tower

The Ohio State University Wexner Medical Center selected HDR to program and design a new patient tower at its Columbus campus. The 840-bed tower will house surgical services, emergency services, logistics and new parking facilities. The tower will connect to the Ohio State University Comprehensive Cancer Center - Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. OSU announced that the total project cost could top \$1 billion, and completion isn't expected before 2025.

## HOK Complex Justice Campus

The \$571-million Indianapolis Community Justice Campus in Indianapolis, Ind., includes an assessment and intervention center, a 2,700-bed adult detention center with an additional 300 beds for acute healthcare and mental health, adjudication spaces and facility space for judicial officers. The 1.3-million-sq-ft project, designed by HOK, is slated for completion in 2021.

## Perkins Eastman Marin Hospital Replacement

Driven by a need to meet California seismic safety standards, MGH 2.0 is a \$535-million Marin General Hospital replacement. The project, designed by Perkins Eastman, includes a 294,000-sq-ft acute care building, an 80,000-sq-ft ambulatory services building and a 415-space parking structure. The four-story facility, scheduled to open in mid-2020, will house 114 private rooms, an emergency department and six operating/procedural suites. McCarthy Building Companies is the general contractor.

# The Top Design Firms in General Building

## GENERAL BUILDING

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	1634.8
2	GENSLER	1104.4
3	JACOBS	862.6
4	PERKINS+WILL	521.0
5	STANTEC INC.	484.9
6	HDR	416.0
7	HKS	401.6
8	ARCADIS NORTH AMERICA/CALLISONRTKL	398.0
9	HOK	389.9
10	KIMLEY-HORN	360.4
11	SKIDMORE, OWINGS & MERRILL LLP	301.4
12	TERRACON CONSULTANTS INC.	294.5
13	IBI GROUP	264.0
14	SMITHGROUPJJR	256.7
15	INTERTEK-PSI	235.8
16	PERKINS EASTMAN	225.0
17	THORNTON TOMASETTI INC.	223.3
18	DLR GROUP	217.8
19	WSP USA	204.7
20	EXP	201.4
21	CANNONDESIGN	191.4
22	NV5 GLOBAL INC.	182.0
23	NELSON	173.4
24	NBBJ	167.9
25	HGA	161.0
26	POPULOUS	158.5
27	ARUP	155.3
28	ZGF ARCHITECTS LLP	149.5
29	KPF CONSULTING ENGINEERS	147.8
30	KOHN PEDERSEN FOX ASSOCIATES PC	136.5
31	EYP	136.4
32	IMEG CORP.	134.4
33	DEWBERRY	132.3
34	WISS, JANNEY, ELSTNER ASSOCIATES	121.3
35	GHD INC.	121.1
36	NORR	117.0
37	CHA CONSULTING INC.	115.8
38	LANGAN	115.7
39	MICHAEL BAKER INTERNATIONAL	112.3
40	CARDNO INC.	112.2
41	GOLDER ASSOCIATES CORP.	109.6
42	WILLDAN GROUP INC.	107.0
43	PAGE SOUTHERLAND PAGE INC.	104.0
44	HENDERSON ENGINEERS	102.9
45	CUNNINGHAM GROUP ARCHITECTURE INC.	100.8
46	WOOD PLC	100.1
47	FLAD ARCHITECTS	95.1
48	LEO A DALY	94.4
49	SIMPSON GUMPERTZ & HEGER	94.3
50	AFFILIATED ENGINEERS INC.	93.9

## RETAIL

RANK	FIRM	REVENUE (\$ MIL.)
1	KIMLEY-HORN	244.2
2	ARCADIS NORTH AMERICA/CALLISONRTKL	229.0
3	JACOBS	136.9
4	GENSLER	118.2
5	TERRACON CONSULTANTS INC.	85.9
6	HENDERSON ENGINEERS	60.7
7	GREENBERGFARROW	59.8
8	GOLDER ASSOCIATES CORP.	53.4
9	MG2	48.7
10	INTERTEK-PSI	46.0
11	WD PARTNERS	44.0
12	STANTEC INC.	41.8
13	PARTNER ENGINEERING AND SCIENCE INC.	30.5
14	MBH ARCHITECTS	24.8
15	CHIPMAN DESIGN ARCHITECTURE	23.0
16	DAVID EVANS ENTERPRISES INC.	23.0
17	CORE STATES GROUP	21.8
18	SGA DESIGN GROUP	19.3
19	CTA ARCHITECTS ENGINEERS	18.4
20	DLR GROUP	17.5
21	HOK	14.4
22	MS CONSULTANTS INC.	13.1
23	WALTER P MOORE	13.0
24	VHB	12.6
25	BERGMANN	11.7

## COMMERCIAL OFFICES

RANK	FIRM	REVENUE (\$ MIL.)
1	GENSLER	512.5
2	AECOM	201.8
3	HOK	125.5
4	THORNTON TOMASETTI INC.	83.8
5	WSP USA	72.4
6	JACOBS	68.1
7	HDR	61.2
8	ARUP	58.7
9	STUDIOS ARCHITECTURE	56.2
10	INTERTEK-PSI	56.1
11	HKS	53.1
12	SMITHGROUPJJR	48.2
13	TERRACON CONSULTANTS INC.	48.0
14	STANTEC INC.	44.5
15	CORGAN	42.5
16	KOHN PEDERSEN FOX ASSOCIATES PC	40.6
17	ZGF ARCHITECTS LLP	39.7
18	ARCADIS NORTH AMERICA/CALLISONRTKL	37.0
19	ELKUS MANFREDI ARCHITECTS	31.9
20	TPG ARCHITECTURE LLP	31.9
21	HGA	31.6
22	PARTNER ENGINEERING AND SCIENCE INC.	30.3
23	KENDALL/HEATON ASSOCIATES INC.	29.1
24	AKF GROUP LLC	26.4
25	GHAFARI ASSOCIATES LLC	25.9

\*BASED ON 2017 DESIGN REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEY OF LEADING CONTRACTORS AND DESIGN FIRMS. SEE ENR.COM FOR EXPANDED LISTINGS.

## GOVERNMENT OFFICES

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	320.6
2	AECOM	316.0
3	MICHAEL BAKER INTERNATIONAL	53.3
4	BLACK & VEATCH	47.2
5	BURNS & MCDONNELL	42.4
6	SNC-LAVALIN INC.	40.5
7	GENSLER	39.1
8	HDR	37.6
9	THORNTON TOMASETTI INC.	35.9
10	EYP	33.5
11	DEWBERRY	33.2
12	LOUIS BERGER	32.0
13	DAY & ZIMMERMANN	29.5
14	HOK	28.7
15	ARUP	24.1
16	IMEG CORP.	22.8
17	CLARK NEXSEN INC.	22.7
18	PARSONS	22.6
19	ADRIAN SMITH + GORDON GILL ARCHITECTURE	21.1
20	INTERTEK-PSI	19.8
21	WHITMAN, REQUARDT AND ASSOCIATES LLP	17.5
22	WSP USA	15.4
23	ZGF ARCHITECTS LLP	15.3
24	SMITHGROUPJJR	15.3
25	STANLEY CONSULTANTS INC.	14.1

## EDUCATION

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	143.9
2	STANTEC INC.	116.0
3	DLR GROUP	91.0
4	GENSLER	87.0
5	CANNONDESIGN	75.0
6	JACOBS	72.9
7	STV GROUP INC.	68.4
8	HUCKABEE	65.3
9	SMITHGROUPJJR	42.9
10	EYP	42.7
11	HMC ARCHITECTS	42.2
12	PERKINS EASTMAN	41.5
13	TERRACON CONSULTANTS INC.	41.0
14	LPA INC	37.7
15	HOK	35.9
16	NAC ARCHITECTURE	34.9
17	CORGAN	32.5
18	LS3P	30.7
19	HARLEY ELLIS DEVEREAUX	30.5
20	AYERS SAINT GROSS	30.5
21	IMEG CORP.	29.0
22	HKS	28.6
23	ROBERT A.M. STERN ARCHITECTS	27.3
24	THE S/L/A/M COLLABORATIVE INC.	27.1
25	INTERTEK-PSI	25.9

## CORRECTIONAL FACILITIES

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	37.2
2	HOK	27.3
3	DLR GROUP	21.1
4	STANTEC INC.	9.9
5	HDR	9.9
6	DLZ CORP.	9.4
7	TREANORHL	4.8
8	JACOBS	4.8
9	WSP USA	2.9
10	DEWBERRY	2.9

## HEALTH CARE

RANK	FIRM	REVENUE (\$ MIL.)
1	HDR	274.7
2	JACOBS	162.0
3	HKS	161.0
4	AECOM	98.5
5	STANTEC INC.	95.5
6	CANNONDESIGN	85.0
7	SMITHGROUPJJR	80.1
8	HOK	79.4
9	PERKINS EASTMAN	78.6
10	HGA	77.4
11	ARCADIS NORTH AMERICA/CALLISONRTKL	69.0
12	EYP	60.3
13	GRESHAM, SMITH AND PARTNERS	59.5
14	IMEG CORP.	52.0
15	ZGF ARCHITECTS LLP	49.4
16	WSP USA	41.8
17	BSA LIFESTRUCTURES	40.5
18	HMC ARCHITECTS	39.6
19	FLAD ARCHITECTS	36.0
20	SMITH SECKMAN REID INC.	35.2
21	SHEPLEY BULFINCH	34.1
22	LEO A DALY	31.8
23	BOULDER ASSOCIATES ARCHITECTS	29.7
24	EWINGCOLE	28.2
25	TLC ENGINEERING FOR ARCHITECTURE INC.	27.0

## DISTRIBUTION AND WAREHOUSES

RANK	FIRM	REVENUE (\$ MIL.)
1	CHA CONSULTING INC.	83.1
2	TERRACON CONSULTANTS INC.	32.5
3	AECOM	20.4
4	INTERTEK-PSI	10.6
5	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	7.9

## HOTELS, MOTELS AND CONVENTION CENTERS

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	102.8
2	GENSLER	91.0
3	HKS	74.3
4	WILSON ASSOCIATES	31.7
5	LMN ARCHITECTS	26.9
6	PERKINS EASTMAN	25.1
7	JACOBS	20.4
8	COOPER CARRY	19.2
9	ARCADIS NORTH AMERICA/CALLISONRTKL	19.0
10	CAMBRIDGE SEVEN ASSOCIATES	17.5

## MULTI-UNIT RESIDENTIAL

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	154.4
2	KIMLEY-HORN	94.5
3	STANTEC INC.	92.4
4	PAPE-DAWSON ENGINEERS INC.	52.5
5	MICHAEL BAKER INTERNATIONAL	36.7
6	WSP USA	35.9
7	ARCADIS NORTH AMERICA/CALLISONRTKL	33.0
8	THORNTON TOMASETTI INC.	31.0
9	TERRACON CONSULTANTS INC.	30.0
10	INTERTEK-PSI	28.1
11	PERKINS EASTMAN	26.4
12	GOLDER ASSOCIATES CORP.	25.6
13	KOHN PEDERSEN FOX ASSOCIATES PC	21.9
14	PARSONS	21.6
15	WDG ARCHITECTURE PLLC	19.4

## SPORTS

RANK	FIRM	REVENUE (\$ MIL.)
1	POPULOUS	147.3
2	HKS	65.4
3	HOK	44.3
4	AECOM	34.5
5	GENSLER	32.0
6	HNTB COS.	28.4
7	ME ENGINEERS	24.8
8	KIMLEY-HORN	21.5
9	THORNTON TOMASETTI INC.	21.2
10	WALTER P MOORE	16.4

## ENTERTAINMENT

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	68.3
2	GENSLER	59.0
3	CUNNINGHAM GROUP ARCHITECTURE INC.	32.9
4	JACOBS	26.0
5	STANTEC INC.	21.6
6	WALTER P MOORE	13.6
7	JCJ ARCHITECTURE	12.8
8	INTERTEK-PSI	11.8
9	BRPH	9.9
10	MCLAREN ENGINEERING GROUP	8.3

## RELIGIOUS AND CULTURAL

RANK	FIRM	REVENUE (\$ MIL.)
1	GENSLER	22.5
2	JACOBS	21.3
3	DLR GROUP	20.1
4	BEYER BLINDER BELLE, ARCHITECTS AND PLANNERS LLP	18.4
5	AECOM	16.1

## MIXED USE

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	432.1
2	GENSLER	106.2
3	KOHN PEDERSEN FOX ASSOCIATES PC	61.8
4	PERKINS EASTMAN	31.2
5	PARSONS	24.5
6	VHB	19.0
7	BRPH	16.5
8	HOK	14.9
9	OLSSON ASSOCIATES	14.3
10	COOPER CARRY	10.3
11	STEINBERG HART	10.3
12	HKS	9.9
13	ENGLAND-THIMS & MILLER INC.	9.1
14	GOETTSCHE PARTNERS	9.1
15	DAVIS PARTNERSHIP ARCHITECTS	8.3



**DESIGN INNOVATIONS** LAX's new people-mover system is being designed around existing parking structures.

# Smoother Moves Coming

## New System at LAX Will include 2.25 miles of guideway

The ongoing modernization program at Los Angeles International Airport (LAX) continues with a \$1.95-billion automated people-mover system, being developed under a public-private design-build-finance-operate-maintain partnership by LAX Integrated Express Solutions. Lead design firm HDR is overseeing engineering of the system's fixed facilities, including 2.25 miles of elevated guideway and five stations with associated elevators and escalators. Technical design innovations include engineering the guideway around two existing parking structures, eliminating the need to demolish and rebuild them. A new maintenance and storage facility for the system's electric trains will be placed at ground level to reduce construction time and cost and simplify future facility expansion. Design of other improvements, including elevated passenger-moving walkway structures to connect stations and terminals, as well as roadways, drainage, traffic signage, signals and lighting is also underway. Major construction begins next year, with the people mover scheduled to begin operation in 2023. ■

*By Jim Parsons*

**43%**

The projected utilization of design-build for highway and street projects 2018-21.  
—FMI

*“Through innovation, new partnerships, new technology and creative approaches, the industry is poised to bring to life infrastructure solutions that last longer, take less time to build and require less money to operate.”*

*—John Barton, national DOT leader and senior vice president, HNTB Corp.*

**STV**

**Untangling an Interchange**

The \$880-million, six-phase reconfiguration, rehabilitation and reconstruction of the Betsy Ross Interchange along I-95 in Philadelphia aims to ease congestion for commuters and visitors. STV Inc. is providing preliminary engineering, final design, and construction support services for the multi-faceted infrastructure project, which includes new and reconstructed ramps, interstate-highway and adjacent-street improvements and extensive utility relocations.

**HNTB and Alliance**  
**A Signature Transit Hub**

In Austin, HNTB and Alliance Transportation Group Inc. are wrapping up design of Capitol Metro's downtown transit station. Replacing one of the 32-mile rail system's smallest stations, the \$22 million, three-track facility will accommodate longer trains operating at more frequent intervals, more than doubling its current passenger capacity. Features include new platforms and signature parasol-like canopy structures just outside the Austin Convention Center.

**Stantec**

**Capacity for Key Corridor**

Stantec is leading the design of the Long Island Rail Road's \$1.9-billion Main Line capacity expansion in Nassau County, N.Y. The addition of a third track along the nearly 10-mile-long corridor includes expansion of eight bridges, upgrades at six stations and elimination of seven street-level grade crossings, as well as improvements to railroad signal, power, and communication systems.

**Louis Berger**

**P3 Powers I-66 Lanes**

Louis Berger is a lead designer for a \$3.7-billion public-private partnership that will add toll lanes along a 22-mile stretch of Interstate 66 in Northern Virginia. In addition to providing two dynamically tolled express lanes in each direction, the project consortium is funding other transportation improvements within the corridor, including interchange upgrades, new park-and-ride lots and a pedestrian/cycling trail.

# The Top Design Firms in Transportation

## TRANSPORTATION

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	2961.1
2	JACOBS	2305.5
3	HNTB COS.	1066.6
4	PARSONS	1042.0
5	WSP USA	977.4
6	HDR	972.3
7	STANTEC INC.	459.2
8	KIMLEY-HORN	385.0
9	STV GROUP INC.	359.2
10	LOUIS BERGER	323.0
11	T.Y. LIN INTERNATIONAL	313.7
12	SNC-LAVALIN INC.	297.0
13	GANNETT FLEMING	281.4
14	MICHAEL BAKER INTERNATIONAL	275.5
15	JOHNSON, MIRMIRAN & THOMPSON INC.	251.4
16	TETRA TECH INC.	241.0
17	GREENMAN-PEDERSEN (GPI)	221.4
18	RS&H INC.	207.6
19	MOTT MACDONALD	200.5
20	TRANSYSTEMS	196.6
21	WOOD PLC	194.0
22	ARUP	185.6
23	TRANSCORE	180.9
24	RK&K	180.6
25	CDM SMITH	179.9
26	BURNS & MCDONNELL	159.3
27	BECHTEL	155.0
28	MOFFATT & NICHOL	147.9
29	GOLDER ASSOCIATES CORP.	146.4
30	VOLKERT INC.	133.6
31	DEWBERRY	133.4
32	TRC	132.1
33	VHB	126.7
34	KCI TECHNOLOGIES INC.	123.0
35	H.W. LOCHNER INC.	112.7
36	TERRACON CONSULTANTS INC.	100.5
37	ALFRED BENESCH & CO.	94.8
38	WHITMAN, REQUARDT AND ASSOCIATES LLP	88.2
39	MCCORMICK TAYLOR INC.	83.7
40	GHD INC.	82.0
41	HARDESTY & HANOVER LLC	80.2
42	MEAD & HUNT INC.	79.8
43	PENNONI	78.0
44	ARCADIS NORTH AMERICA/CALLISONRTKL	77.0
45	INTERTEK-PSI	75.1
46	NV5 GLOBAL INC.	73.9
47	EXP	72.6
48	CARDNO INC.	68.1
49	STANLEY CONSULTANTS INC.	67.6
50	CORGAN	66.5

## BRIDGES

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	375.9
2	JACOBS	180.9
3	HDR	177.1
4	HNTB COS.	157.5
5	GREENMAN-PEDERSEN (GPI)	155.0
6	MICHAEL BAKER INTERNATIONAL	137.5
7	WSP USA	121.0
8	TRANSYSTEMS	85.2
9	T.Y. LIN INTERNATIONAL	82.0
10	HARDESTY & HANOVER LLC	80.2
11	LOUIS BERGER	78.0
12	STV GROUP INC.	68.2
13	PARSONS	60.5
14	STANTEC INC.	59.5
15	KCI TECHNOLOGIES INC.	58.0
16	RK&K	43.7
17	VHB	42.8
18	MODJESKI AND MASTERS INC.	38.7
19	ALFRED BENESCH & CO.	37.9
20	COWI NORTH AMERICA INC.	37.5
21	TRC	35.1
22	TETRA TECH INC.	35.0
23	GANNETT FLEMING	31.3
24	PRIME AE GROUP INC.	26.4
25	JOHNSON, MIRMIRAN & THOMPSON INC.	26.1

## MASS TRANSIT AND RAIL

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	1027.7
2	JACOBS	888.8
3	PARSONS	433.5
4	WSP USA	421.8
5	HNTB COS.	284.3
6	HDR	271.7
7	STV GROUP INC.	194.0
8	GANNETT FLEMING	122.1
9	BECHTEL	105.0
10	ARUP	92.4
11	MOTT MACDONALD	90.0
12	SNC-LAVALIN INC.	78.5
13	STANTEC INC.	77.9
14	T.Y. LIN INTERNATIONAL	77.4
15	ARCADIS NORTH AMERICA/CALLISONRTKL	74.0
16	KIMLEY-HORN	70.1
17	GOLDER ASSOCIATES CORP.	49.2
18	CDM SMITH	49.2
19	LOUIS BERGER	40.0
20	TRANSYSTEMS	30.0
21	RK&K	27.9
22	MICHAEL BAKER INTERNATIONAL	25.5
23	DEWBERRY	19.3
24	VHB	18.5
25	HANSON PROFESSIONAL SERVICES INC.	16.5

\*BASED ON 2017 DESIGN REVENUE FROM TRANSPORTATION AS REPORTED IN ENR'S SURVEY OF LEADING CONTRACTORS AND DESIGN FIRMS. SEE ENR.COM FOR EXPANDED LISTINGS.

## HIGHWAYS

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	1,115.2
2	JACOBS	765.8
3	HNTB COS.	501.5
4	PARSONS	480.2
5	HDR	450.7
6	WSP USA	341.0
7	SNC-LAVALIN INC.	287.2
8	STANTEC INC.	287.1
9	KIMLEY-HORN	226.4
10	JOHNSON, MIRMIRAN & THOMPSON INC.	210.7
11	RS&H INC.	152.2
12	TETRA TECH INC.	137.0
13	GANNETT FLEMING	128.1
14	VOLKERT INC.	109.0
15	CDM SMITH	108.9
16	T.Y. LIN INTERNATIONAL	107.6
17	RK&K	99.7
18	STV GROUP INC.	97.0
19	DEWBERRY	88.8
20	MOTT MACDONALD	86.6
21	TRANSYSTEMS	81.4
22	MICHAEL BAKER INTERNATIONAL	81.2
23	GOLDER ASSOCIATES CORP.	80.2
24	LOUIS BERGER	75.0
25	TRC	71.0

## MARINE AND PORT FACILITIES

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	162.6
2	JACOBS	134.9
3	MOFFATT & NICHOL	117.0
4	LOUIS BERGER	75.0
5	TETRA TECH INC.	69.0
6	HDR	29.5
7	LANIER & ASSOCIATES CONSULTING ENGINEERS INC.	24.0
8	COWI NORTH AMERICA INC.	23.5
9	MOTT MACDONALD	12.2
10	MCLAREN ENGINEERING GROUP	10.5

## AIRPORTS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	335.3
2	AECOM	279.7
3	HNTB COS.	123.3
4	BURNS & MCDONNELL	120.0
5	KIMLEY-HORN	88.6
6	WSP USA	83.4
7	PARSONS	67.6
8	CORGAN	66.5
9	ARUP	64.4
10	HOK	61.3
11	RS&H INC.	55.4
12	LOUIS BERGER	55.0
13	SNC-LAVALIN INC.	54.3
14	MEAD & HUNT INC.	53.3
15	HDR	43.3
16	LANDRUM & BROWN INC.	42.3
17	PGAL	36.2
18	MICHAEL BAKER INTERNATIONAL	31.3
19	GHAFFARI ASSOCIATES LLC	31.0
20	T.Y. LIN INTERNATIONAL	28.1
21	KOHN PEDERSEN FOX ASSOCIATES PC	27.1
22	MORRISON HERSHFIELD	25.5
23	STANTEC INC.	25.3
24	FENTRESS ARCHITECTS	24.9
25	BECHTEL	24.0





**EXPORT FACILITY** LNG produced in British Columbia will be destined for Asian markets.

# Canada Eyes Asia for LNG

## \$14 billion LNG facility planned in British Columbia

**A** joint venture between Fluor and Yokohama, Japan-based JGC was selected in April as the engineering, procurement and construction contractor for LNG Canada's proposed liquefied natural gas export facility in Kitimat, British Columbia. The approximately \$14-billion project will include two LNG trains, each with the capacity to produce at least 6.5 million tons of LNG a year. The project, which is targeting Asian markets, could be expanded to four trains. In late May, PETRONAS, a Malaysian oil and natural gas company, reached a deal to take a 25% stake in the LNG Canada project. When the deal is complete, Shell Canada Energy will have a 40% stake, followed by subsidiaries of PetroChina at 15%, Mitsubishi at 15% and Korea Gas with 5%. Fluor expects the project owners to make a final investment decision late this year. If the project moves ahead, Fluor intends to make modules for the LNG plant at a fabrication yard in China it co-owns with a China National Offshore Oil subsidiary, a move Fluor says will reduce project risk. It will take about five years to build the project's first two trains, according to LNG Canada. ■

*By Ethan Howland*

### Chiyoda-Kiewit Joint Venture Gulf Coast Growth Ventures

Exxon Mobil and Saudi Basic Industries Corp. selected Chiyoda-Kiewit and CTCI McDermott to design and build the roughly \$7.3-billion Gulf Coast Growth Ventures project, a 1.8-million-ton ethane cracker proposed for San Patricio County, Texas. The project will include a monoethylene glycol unit and two polyethylene units. Texas environmental regulators issued a draft air permit for the project in April. Once a final permit is released, the companies expect construction will start in 2019. The project is slated to begin operating during the first half of 2022.

### SNC-Lavalin World's Largest PAO Unit


In a joint venture with construction firm JV Driver, SNC-Lavalin was tapped by INEOS Oligomers to design and build the world's largest poly-alphaolefin unit at the company's petrochemical complex in Chocolate Bayou, Texas. The project, expected online in October 2019, will be designed to produce 120,000 metric tons of PAO a year.

### Bechtel Lake Charles LNG JV

Bechtel entered into four turn-key contracts in November with Tellurian to design and build the \$15.2-billion Driftwood LNG export facility near Lake Charles, La. Tellurian expects to make a final investment decision on the project in the first half of next year. Bechtel is taking a \$50-million stake in the facility. Tellurian plans to begin producing LNG at the facility in 2023 and to bring it fully online in 2026. Tellurian will spend up to \$2.2 billion on pipelines to deliver natural gas to the export facility, which is designed to ship up to 27.6 million tons of LNG a year.

### McDermott Port Arthur Cracker

Joint venture Total Petrochemicals & Refining USA, Borealis AG and NOVA Chemicals awarded McDermott a contract to design and build a \$1.7-billion ethane cracker at Total's refining complex in Port Arthur, Texas. The cracker is set to produce 1 million tons a year of ethane when it starts operating in 2020.



**17MB/D**

**Higher oil prices are expected to spur an increase in oil and natural gas liquids supply, with U.S. production growing to about 17 million barrels a day in 2023, up from about 13 mb/d last year, according to a May report from the International Energy Agency.**

**↑ 6%**

The Energy Information Administration expects U.S. natural gas production to grow by 6% a year through 2020, driven by growing demand from large chemical projects and new liquefaction export terminals in an environment of low natural gas prices.

# The Top Design Firms in Petroleum

## PETROLEUM

RANK	FIRM	REVENUE (\$ MIL.)
1	FLUOR CORP.	2,342.3
2	JACOBS	1,896.8
3	KBR INC.	1,709.0
4	WOOD PLC	676.9
5	WORLEYPARSONS	439.4
6	BECHTEL	379.0
7	S&B ENGINEERS AND CONSTRUCTORS LTD.	309.8
8	GULF INTERSTATE ENGINEERING CO.	305.0
9	TETRA TECH INC.	251.0
10	CB&I	240.8
11	AEGION CORP.	232.8
12	BUREAU VERITAS	186.3
13	TRC	172.4
14	MOTT MACDONALD	161.7
15	BURNS & MCDONNELL	157.1
16	INTERTEK-PSI	156.8
17	UNIVERSALPEGASUS INTERNATIONAL	150.0
18	CDI CORP.	149.2
19	GOLDER ASSOCIATES CORP.	130.6
20	EN ENGINEERING LLC	130.1
21	AECOM	125.3
22	FUGRO	125.0
23	BURROW GLOBAL LLC	114.2
24	ZACHRY GROUP	90.4
25	ANVIL CORP.	74.0
26	STANTEC INC.	72.8
27	CARDNO INC.	68.4
28	POND	67.3
29	BLACK & VEATCH	66.9
30	MIDDOUGH INC.	58.3
31	KIEWIT CORP.	57.3
32	HARGROVE ENGINEERS + CONSTRUCTORS	55.0
33	WSP USA	50.8
34	SAM LLC	44.6
35	PRIMORIS SERVICES CORP.	44.4
36	KLEINFELDER	42.7
37	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	42.0
38	ECOLOGY AND ENVIRONMENT INC.	41.1
39	SPEC SERVICES INC.	38.1
40	GHD INC.	36.0
41	BARR ENGINEERING CO.	34.9
42	C&I ENGINEERING	34.9
43	RETTEW ASSOCIATES INC.	34.2
44	EXP	34.2
45	GAI CONSULTANTS INC.	30.1
46	WALDEMAR S. NELSON AND CO. INC.	29.5
47	TERRACON CONSULTANTS INC.	29.0
48	HGA	29.0
49	SWCA ENVIRONMENTAL CONSULTANTS	28.9
50	GEOSYNTEC CONSULTANTS INC.	26.9

## PIPELINES

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	329.1
2	GULF INTERSTATE ENGINEERING CO.	305.8
3	TETRA TECH INC.	240.0
4	MOTT MACDONALD	161.7
5	EN ENGINEERING LLC	130.1
6	TRC	129.3
7	INTERTEK-PSI	116.4
8	AECOM	47.5
9	CDI CORP.	43.6
10	ECOLOGY AND ENVIRONMENT INC.	41.1
11	SAM LLC	38.5
12	STANTEC INC.	37.1
13	BURNS & MCDONNELL	34.4
14	GAI CONSULTANTS INC.	30.0
15	GOLDER ASSOCIATES CORP.	29.3
16	HGA	29.0
17	TERRACON CONSULTANTS INC.	28.0
18	HDR	25.0
19	SPEC SERVICES INC.	22.5
20	PARSONS	20.6
21	FLUOR CORP.	19.6
22	MICHAEL BAKER INTERNATIONAL	15.8
23	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	12.8
24	WSP USA	10.7
25	GEOSYNTEC CONSULTANTS INC.	8.5

## MAINTENANCE, INCLUDING TURNAROUNDS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	194.0
2	FLUOR CORP.	43.4
3	CDI CORP.	17.7
4	SAM LLC	5.6
5	AECOM	4.1
6	PROFESSIONAL ENGINEERING CONSULTANTS PA	2.5
7	BLACK & VEATCH	2.2
8	SUPERIOR ENGINEERING LLC	0.3
9	COLLINS ENGINEERS INC.	0.2
10	GAI CONSULTANTS INC.	0.1

**REFINERIES AND PETROCHEMICAL PLANTS**

RANK	FIRM	REVENUE (\$ MIL.)
1	FLUOR CORP.	2,241.4
2	KBR INC.	1,709.0
3	JACOBS	1,312.0
4	BECHTEL	374.0
5	S&B ENGINEERS AND CONSTRUCTORS LTD. & AFFIL.	302.6
6	AEGION CORP.	232.8
7	BURNS & MCDONNELL	122.7
8	ZACHRY GROUP	90.4
9	CDI CORP.	87.9
10	BLACK & VEATCH	58.4
11	HARGROVE ENGINEERS + CONSTRUCTORS	48.9
12	KIEWIT CORP.	48.1
13	TRC	43.1
14	WSP USA	40.1
15	STANTEC INC.	35.5
16	C&I ENGINEERING	34.9
17	AECOM	34.5
18	SAULSBURY INDUSTRIES INC.	24.9
19	SNC-LAVALIN INC.	17.2
20	MATRIX TECHNOLOGIES INC.	14.3
21	GOLDER ASSOCIATES CORP.	12.3
22	TETRA TECH INC.	11.0
23	EN ENGINEERING LLC	10.8
24	SPEC SERVICES INC.	10.7
25	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	10.1

**OFFSHORE AND UNDERWATER FACILITIES**

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	61.8
2	FLUOR CORP.	37.9
3	WALDEMAR S. NELSON AND CO. INC.	28.0
4	AECOM	26.7
5	ARUP	26.1
6	GEOSYNTEC CONSULTANTS INC.	5.2
7	KIEWIT CORP.	4.5
8	LJA ENGINEERING INC.	3.4
9	GOLDER ASSOCIATES CORP.	1.0
10	NINYO & MOORE GEOTECH & ENVIRON.	0.5



**BELLEFONTE** Nuclear Development has an agreement to purchase a nuclear plant from TVA for \$111 million.

## Resurrecting an Old Nuke

### SNC-Lavalin Hired To Revive a Partially Finished Plant

In June, Nuclear Development LLC tapped SNC-Lavalin to complete work on at least one nuclear unit at the partially completed Bellefonte nuclear plant in Alabama. Nuclear Development has a contract to purchase the reactor from the Tennessee Valley Authority for \$111 million after TVA determined it no longer needed the plant, which has two unfinished 1,256-MW reactors. TVA stopped construction on the plant in 1988, when work on the Babcock and Wilcox pressurized water reactor was about 90% complete. Since then, some of the reactor's components have been removed, leaving the unit at closer to 55% complete. Company owner Franklin Haney expects it will cost about \$13 billion to finish construction of the PWR unit and plans to ask for a federal loan guarantee. SNC-Lavalin's engineering work will include design changes to ensure systems and components meet all regulatory requirements. It will also involve replacing missing, obsolete and degraded equipment, and ensuring the plant will operate reliably and at a high capacity factor, according to an SNC-Lavalin spokeswoman. ■

By Pam Radtke Russell

#### Burns & McDonnell 128-MW Gas-Fired Peaker

Entergy New Orleans' 128-MW gas-fired plant within the city will feature Wärtsilä reciprocating engine technology to better balance the intermittence of renewable sources. Entergy had originally proposed building a 226-MW combined-cycle natural gas facility on the site. Burns & McDonnell was selected as EPC project manager for the \$210-million power station. Construction will begin in 2018.

#### Black & Veatch, SAI A Coast-to-Coast Network

Electrify America, a subsidiary of Volkswagen, plans to build out a network of more than 2,000 electric vehicle stations on 484 sites in 39 states. Black & Veatch and SAI Group will engineer, permit and construct the fast-charging 160-kW stations in cities and along highways. Most will be complete by the end of 2019. The stations are part of Volkswagen's \$2-billion settlement in the U.S. over VW's emission cheating scandal.

#### Sargent & Lundy Utility of the Future

As part of the NextGrid: Illinois Utility of the Future Study, Sargent & Lundy has been selected to work with the University of Illinois and the Illinois Institute of Technology in a consumer-focused study to transform Illinois' energy landscape and economy. Sargent & Lundy Vice President Brian Kelley will participate in the new technology and grid integration working group. Other groups include metering, communications and data; reliability, resiliency and cyber security; and electricity markets.

#### TetraTech Coal Fields Transformation

Dominion Energy is in the early stages of exploring the potential for building a hydroelectric pumped-storage facility at two former coal fields in southwest Virginia. TetraTech is carrying out feasibility studies and preliminary permitting analyses. Pumped hydroelectric storage facilities can store energy for when it is needed most and also be used to balance intermittent resources on the electric grid, such as wind and solar power.

**21%**  
How much retail electricity was sold by competitive power marketers in the United States in 2016.—EIA

*AECOM has announced it will no longer pursue fixed-price EPC projects for the combined-cycle gas market because of weak market conditions and decreasing opportunities.*

**493**  
New wind farms planned in the U.S. through May 2021, providing 91 GW of power—compared to 1,797 solar units providing 52 GW of power and 342 natural gas units providing 86 GW of power.—FERC

# The Top Design Firms in Power

## NUCLEAR PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	SARGENT & LUNDY LLC	209.4
2	SNC-LAVALIN INC.	185.7
3	ENERCON SERVICES INC.	182.1
4	JACOBS	47.3
5	TETRA TECH INC.	35.0
6	ZACHRY GROUP	33.1
7	BECHTEL	27.0
8	AECOM	16.8
9	BURNS & MCDONNELL	15.0
10	BLACK & VEATCH	13.6
11	GOLDER ASSOCIATES CORP.	9.3
12	GREENMAN-PEDERSEN (GPI)	8.1
13	TRC	4.8
14	FLUOR CORP.	4.3
15	GEOSYNTEC CONSULTANTS INC.	2.6

## TRANSMISSION AND DISTRIBUTION

RANK	FIRM	REVENUE (\$ MIL.)
1	BURNS & MCDONNELL	444.9
2	POWER ENGINEERS INC.	376.7
3	TRC	288.0
4	BLACK & VEATCH	223.4
5	AECOM	183.2
6	SARGENT & LUNDY LLC	100.2
7	HDR	86.9
8	WSP USA	78.8
9	TETRA TECH INC.	57.0
10	ELECTRICAL CONSULTANTS INC.	53.2
11	COMMONWEALTH ASSOCIATES INC.	41.7
12	STANTEC INC.	40.8
13	TERRACON CONSULTANTS INC.	36.0
14	SAM LLC	35.3
15	ULTEIG ENGINEERS INC.	34.7
16	KIEWIT CORP.	33.5
17	EN ENGINEERING LLC	32.6
18	LEIDOS	30.9
19	VOLKERT INC.	24.5
20	GAI CONSULTANTS INC.	24.0
21	STANLEY CONSULTANTS INC.	23.8
22	JACOBS	22.7
23	CHA CONSULTING INC.	22.6
24	GANNETT FLEMING	20.4
25	LOUIS BERGER	20.0

## POWER

RANK	FIRM	REVENUE (\$ MIL.)
1	BURNS & MCDONNELL	797.3
2	BLACK & VEATCH	687.7
3	AECOM	531.9
4	POWER ENGINEERS INC.	421.9
5	SARGENT & LUNDY LLC	415.8
6	KIEWIT CORP.	363.7
7	TRC	320.8
8	TETRA TECH INC.	248.0
9	ENERCON SERVICES INC.	228.4
10	WOOD PLC	201.6
11	HDR	188.6
12	LOUIS BERGER	180.0
13	JACOBS	178.1
14	INTERTEK-PSI	173.3
15	ZACHRY GROUP	151.5
16	CB&I	140.8
17	STANTEC INC.	130.4
18	BECHTEL	101.0
19	WSP USA	87.3
20	WILLDAN GROUP INC.	83.0
21	STANLEY CONSULTANTS INC.	74.3
22	GOLDER ASSOCIATES CORP.	71.8
23	ELECTRICAL CONSULTANTS INC.	71.3
24	MESA ASSOCIATES INC.	70.0
25	TERRACON CONSULTANTS INC.	68.0
26	LEIDOS	65.3
27	WORLEYPARSONS	63.0
28	SNC-LAVALIN INC.	60.1
29	NV5 GLOBAL INC.	59.6
30	RCM TECHNOLOGIES INC.	56.2
31	ULTEIG ENGINEERS INC.	46.3
32	FLUOR CORP.	42.8
33	COMMONWEALTH ASSOCIATES INC.	42.2
34	SAM LLC	37.9
35	KBR INC.	37.0
36	GAI CONSULTANTS INC.	36.3
37	KLEINFELDER	34.8
38	GEOSYNTEC CONSULTANTS INC.	33.6
39	EN ENGINEERING LLC	32.6
40	PATRICK ENGINEERING INC.	30.5
41	FUGRO	30.0
42	SWCA ENVIRONMENTAL CONSULTANTS	29.9
43	CHA CONSULTING INC.	29.4
44	GEI CONSULTANTS INC.	27.5
45	HBK ENGINEERING LLC	27.5
46	BARR ENGINEERING CO.	27.5
47	BUREAU VERITAS	26.9
48	CARDNO INC.	25.4
49	VOLKERT INC.	24.5
50	CDI CORP.	24.3

## CO-GENERATION

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	64.1
2	BURNS & MCDONNELL	34.1
3	VANDERWEIL ENGINEERS	13.9
4	CDM SMITH	12.3
5	KIEWIT CORP.	11.5
6	LOUIS BERGER	10.0
7	CDI CORP.	8.0
8	CHA CONSULTING INC.	5.5
9	BLACK & VEATCH	5.4
10	SARGENT & LUNDY LLC	4.6

## HYDRO PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	112.0
2	HDR	56.1
3	STANTEC INC.	47.9
4	AECOM	37.0
5	LOUIS BERGER	30.0
6	BLACK & VEATCH	23.9
7	GEI CONSULTANTS INC.	10.9
8	GOLDER ASSOCIATES CORP.	10.3
9	DLZ CORP.	9.3
10	TRC	6.4

## OPERATION AND MAINTENANCE

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	196.1
2	LOUIS BERGER	105.0
3	BLACK & VEATCH	35.8
4	JACOBS	20.9
5	PATRICK ENGINEERING INC.	10.3

## WIND POWER

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	29.0
2	LOUIS BERGER	15.0
3	ULTEIG ENGINEERS INC.	9.7
4	SARGENT & LUNDY LLC	8.5
5	BURNS & MCDONNELL	8.4
6	AECOM	7.0
7	TERRACON CONSULTANTS INC.	7.0
8	ELECTRICAL CONSULTANTS INC.	5.6
9	STANTEC INC.	5.2
10	BLACK & VEATCH	4.9

## FOSSIL FUEL

RANK	FIRM	REVENUE (\$ MIL.)
1	BLACK & VEATCH	347.1
2	KIEWIT CORP.	313.6
3	BURNS & MCDONNELL	287.4
4	ZACHRY GROUP	118.3
5	SARGENT & LUNDY LLC	86.0
6	AECOM	78.1
7	BECHTEL	69.0
8	STANLEY CONSULTANTS INC.	50.0
9	KBR INC.	37.0
10	HDR	34.5
11	POWER ENGINEERS INC.	33.7
12	STANTEC INC.	31.0
13	GOLDER ASSOCIATES CORP.	30.2
14	FLUOR CORP.	27.6
15	HARGROVE ENGINEERS + CONSTRUCTORS	19.8
16	JACOBS	18.6
17	GEOSYNTEC CONSULTANTS INC.	18.4
18	GEI CONSULTANTS INC.	10.5
19	GAI CONSULTANTS INC.	9.5
20	TRC	8.8
21	CDI CORP.	7.2
22	TERRACON CONSULTANTS INC.	6.0
23	WOOLPERT INC.	4.5
24	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	4.5
25	DLZ CORP.	4.1

## SOLAR POWER

RANK	FIRM	REVENUE (\$ MIL.)
1	BLACK & VEATCH	30.8
2	TETRA TECH INC.	15.0
3	TERRACON CONSULTANTS INC.	13.0
4	HDR	11.1
5	KIMLEY-HORN	10.8
6	AECOM	8.3
7	DUDEK	7.5
8	BURNS & MCDONNELL	7.5
9	LEIDOS	6.1
10	STANTEC INC.	4.5



**INCREASE** An upgrade to equipment will expand Orange County Plant to 130 million gallons per day.

## Old Plant Gets Upgraded

### Orange County Wastewater Plant Increases Capacity

The Orange County Sanitation District has hired Black & Veatch to design the overhaul and upgrade of Wastewater Plant No. 2 in Huntington Beach, Calif. The new facilities will replace units built in the 1970s and will increase the plant's capacity from 100 million gallons per day (mgd) to 130 mgd. The project will require replacing four primary clarifiers and upgrading 10 existing clarifiers. Investigations during the design phase uncovered two earthquake faults beneath the plant that the sanitation district had not known about. The discovery led to a decision to relocate the new clarifiers. The estimated construction cost will be \$120 million, and work is expected to start in 2021. The upgrades will improve the plant's ability to provide source water for the county's groundwater replenishment system. The system, the world's largest for indirect potable reuse, takes highly treated wastewater from throughout the county and further treats the water before injecting it back into the ground for a seawater-intrusion barrier or to increase the local drinking-water supply. ■

*By Scott Lewis*

*"The most significant trend in the environmental sector is the increasing interest from regulators, facility owners and the public in emerging contaminants, particularly PFAS (per- and polyfluoroalkyl substances)."*  
 —*Bill Diguseppi, principal hydrologist, ATEN Global Environmental Solutions*

**€25  
BILLION**

**Amount of EU yearly investments in wastewater infrastructure between 2015 and 2018.**

#### **CDM Smith and Jacobs** **Houston Water Plant**

Houston Waterworks Team, a design-build joint venture of CDM Smith and Jacobs, is designing a major expansion of the city's Northeast Water Purification Plant. The \$1.6-billion project will increase the plant's capacity to 400 mgd from 80 mgd. The expansion includes a new complex to withdraw raw water from Lake Houston, which is challenging, due to wide swings in the lake's turbidity, organics, pH and alkalinity. Construction is expected to start in early 2019.

#### **Stantec** **Skipjack Wind Farm**

Developer Deepwater Wind has selected Stantec to lead the environmental assessment for its 120-MW Skipjack Wind Farm off Maryland's coast. Stantec will work with Chesapeake Environmental Management to handle state and local permitting, as well as coastal habitat surveys; Coastal Resources Inc. to provide benthic taxonomy; AKRF to conduct air quality and acoustic studies; and R. Christopher Goodwin & Associates to provide marine archaeological and cultural support. Deepwater Wind expects to submit its permit applications in 2019.

#### **Carollo Engineers** **Dallas Wastewater Plant**

The 110-mgd Southside Wastewater Treatment Plant's process control system will be expanded with the help of Carollo. Carollo will develop process and instrumentation diagrams for each existing process for the Dallas plant, and then evaluate process improvements to allow integrated control through automation, making the plant more reliable and reducing operational labor costs.

#### **Hazen and Sawyer** **Neuse Recovery Facility**

Raleigh, N.C., is partnering with Hazen and Sawyer on a bioenergy recovery project at the Neuse River Resource Recovery Facility. The project will result in biogas being produced through thermal hydrolysis pretreatment and mesophilic anaerobic digestion. The biogas will be cleaned, converted to renewable natural gas, and used in the city's bus fleet or sold to a third party for revenue.

# The Top Design Firms in Environment

## WATER SUPPLY

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	1102.0
2	JACOBS	649.8
3	AECOM	549.3
4	BLACK & VEATCH	226.1
5	HDR	197.2
6	STANTEC INC.	197.0
7	CDM SMITH	157.4
8	ARCADIS NORTH AMERICA/CALLISONRTKL	140.0
9	CAROLLO ENGINEERS	103.6
10	MICHAEL BAKER INTERNATIONAL	101.1
11	GHD INC.	95.6
12	WOOD PLC	78.1
13	BROWN AND CALDWELL	78.0
14	HAZEN AND SAWYER	72.1
15	DEWBERRY	71.3
16	BURNS & MCDONNELL	69.5
17	GEI CONSULTANTS INC.	60.9
18	GANNETT FLEMING	53.3
19	FREESE AND NICHOLS INC.	49.1
20	SNC-LAVALIN INC.	45.3
21	PARSONS	37.3
22	WOODARD & CURRAN	36.8
23	KIMLEY-HORN	31.5
24	MOTT MACDONALD	28.4
25	LJA ENGINEERING INC.	27.1
26	KLEINFELDER	26.9
27	KENNEDY/JENKS CONSULTANTS INC.	26.7
28	SCHNABEL ENGINEERING INC.	20.5
29	BGE INC. (BROWN & GAY ENGINEERS INC.)	20.2
30	STANLEY CONSULTANTS INC.	20.2
31	WESTON & SAMPSON	19.3
32	LEO A DALY	19.0
33	DANNENBAUM ENGINEERING CORP.	17.5
34	GOLDER ASSOCIATES CORP.	16.7
35	NV5 GLOBAL INC.	16.6
36	EXP	16.5
37	GREELEY AND HANSEN	16.0
38	TERRACON CONSULTANTS INC.	16.0
39	KBR INC.	16.0
40	GARVER	15.7
41	PSOMAS	14.9
42	OLSSON ASSOCIATES	13.9
43	TIGHE & BOND INC.	13.7
44	BARTLETT & WEST INC.	13.4
45	PAPE-DAWSON ENGINEERS INC.	12.9
46	BOWMAN CONSULTING GROUP	12.5
47	WOOD RODGERS INC.	12.4
48	STRAND ASSOCIATES INC.	12.2
49	GEOSYNTEC CONSULTANTS INC.	12.2
50	WHITMAN, REQUARDT AND ASSOCIATES LLP	12.0

## SEWER AND WASTE

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	660.1
2	AECOM	339.7
3	TETRA TECH INC.	324.0
4	BLACK & VEATCH	244.6
5	BROWN AND CALDWELL	211.0
6	CDM SMITH	210.8
7	HDR	201.0
8	STANTEC INC.	180.5
9	HAZEN AND SAWYER	171.9
10	CAROLLO ENGINEERS	168.3
11	SCS ENGINEERS	124.5
12	WOODARD & CURRAN	94.6
13	ARCADIS NORTH AMERICA/CALLISONRTKL	88.0
14	GHD INC.	74.4
15	BURNS & MCDONNELL	70.5
16	GREELEY AND HANSEN	68.5
17	WOOD PLC	67.9
18	GEOSYNTEC CONSULTANTS INC.	54.3
19	MOTT MACDONALD	54.2
20	GOLDER ASSOCIATES CORP.	49.3
21	AEGION CORP.	48.6
22	KLEINFELDER	48.2
23	D&B ENGINEERS AND ARCHITECTS PC	45.3
24	LJA ENGINEERING INC.	42.2
25	FREESE AND NICHOLS INC.	36.1
26	WESTON & SAMPSON	35.4
27	WADE TRIM	34.8
28	DEWBERRY	33.5
29	KENNEDY/JENKS CONSULTANTS INC.	33.2
30	RJN GROUP INC.	32.6
31	OBG	32.0
32	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	30.3
33	ECS	30.2
34	STRAND ASSOCIATES INC.	27.4
35	WRIGHT-PIERCE	25.2
36	GRESHAM, SMITH AND PARTNERS	23.2
37	KIMLEY-HORN	22.8
38	EA ENGINEERING, SCIENCE, AND TECHNOLOGY INC. PBC	22.7
39	EXP	22.0
40	LOUIS BERGER	20.0
41	RK&K	19.9
42	DONOHUE & ASSOCIATES INC.	19.4
43	BURGESS & NIPLE INC.	19.0
44	GANNETT FLEMING	18.5
45	BOWMAN CONSULTING GROUP	18.2
46	MOORE ENGINEERING INC.	18.0
47	HR GREEN INC.	18.0
48	S&ME INC.	17.3
49	GEO-LOGIC ASSOCIATES INC.	17.0
50	TIGHE & BOND INC.	16.9



## HAZARDOUS WASTE

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	1607.5
2	AECOM	1145.3
3	ARCADIS NORTH AMERICA/CALLISONRTKL	656.0
4	LEIDOS	539.6
5	TETRA TECH INC.	533.0
6	FLUOR CORP.	390.9
7	WOOD PLC	241.9
8	TRC	209.1
9	PARSONS	204.1
10	GHD INC.	199.5
11	GEOSYNTEC CONSULTANTS INC.	148.1
12	CDM SMITH	124.0
13	TERRACON CONSULTANTS INC.	106.5
14	HALEY & ALDRICH INC.	96.0
15	WORLEYPARSONS	84.4
16	BROWN AND CALDWELL	84.0
17	LANGAN	76.1
18	BECHTEL	74.0
19	GZA	69.9
20	WSP USA	60.3
21	BURNS & MCDONNELL	58.0
22	BUREAU VERITAS	54.8
23	WOODARD & CURRAN	49.6
24	OBG	48.1
25	STANTEC INC.	41.7
26	SCS ENGINEERS	41.7
27	EA ENGINEERING, SCIENCE, AND TECHNOLOGY INC. PBC	40.0
28	ECS	34.6
29	GEI CONSULTANTS INC.	34.1
30	ECOLOGY AND ENVIRONMENT INC.	32.0
31	GEO-LOGIC ASSOCIATES INC.	32.0
32	LOUIS BERGER	25.0
33	INTERTEK-PSI	23.1
34	NV5 GLOBAL INC.	22.0
35	MERRICK & CO.	22.0
36	FOTH COS.	22.0
37	HDR	19.7
38	MICHAEL BAKER INTERNATIONAL	18.5
39	BLACK & VEATCH	17.5
40	H2M ARCHITECTS + ENGINEERS	17.3
41	EFI GLOBAL INC.	16.6
42	S&ME INC.	16.4
43	AKRF INC.	16.0
44	ENGLAND-THIMS & MILLER INC.	12.9
45	KEITH AND SCHNARS PA	12.5
46	GEOENGINEERS INC.	12.3
47	PENNONI	11.7
48	PARTNER ASSESSMENT CORP. DBA PARTNER ENGINEERING AND SCIENCE INC.	11.7
49	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	11.0
50	HULL & ASSOCIATES INC.	11.0
50	NINYO & MOORE GEOTECH AND ENVIRON. SCIENCES CONSLTS.	11.0

## WATER TREATMENT, DESALINATION PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	693.0
2	JACOBS	548.1
3	AECOM	182.5
4	BLACK & VEATCH	146.9
5	CDM SMITH	106.0
6	ARCADIS NORTH AMERICA/CALLISONRTKL	80.0
7	BURNS & MCDONNELL	69.5
8	CAROLLO ENGINEERS	67.9
9	HDR	60.3
10	STANTEC INC.	44.3
11	PARSONS	33.8
12	KIMLEY-HORN	31.5
13	BROWN AND CALDWELL	29.0
14	GANNETT FLEMING	23.8
15	MOTT MACDONALD	21.1
16	LEO A DALY	18.5
17	KBR INC.	16.0
18	GEI CONSULTANTS INC.	13.5
19	STANLEY CONSULTANTS INC.	11.2
20	H2M ARCHITECTS + ENGINEERS	9.4

## WATER TRANSMISSION LINES AND AQUEDUCTS

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	119.0
2	JACOBS	90.9
3	STANTEC INC.	68.8
4	AECOM	62.1
5	CDM SMITH	51.4
6	BLACK & VEATCH	45.9
7	SNC-LAVALIN INC.	45.6
8	HDR	42.5
9	MICHAEL BAKER INTERNATIONAL	41.0
10	ARCADIS NORTH AMERICA/CALLISONRTKL	35.0
11	BROWN AND CALDWELL	30.0
12	CAROLLO ENGINEERS	26.6
13	FREESE AND NICHOLS INC.	26.5
14	LJA ENGINEERING INC.	20.6
15	DEWBERRY	19.7
16	GREELEY AND HANSEN	13.7
17	WESTON & SAMPSON	12.8
18	PAPE-DAWSON ENGINEERS INC.	12.3
19	DANNENBAUM ENGINEERING CORP.	11.4
20	BARTLETT & WEST INC.	10.4

## DAMS AND RESERVOIRS

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	304.7
2	TETRA TECH INC.	290.0
3	HDR	94.4
4	STANTEC INC.	80.4
5	MICHAEL BAKER INTERNATIONAL	51.8
6	GEI CONSULTANTS INC.	35.0
7	GANNETT FLEMING	29.5
8	BLACK & VEATCH	24.7
9	ARCADIS NORTH AMERICA/CALLISONRTKL	24.0
10	SCHNABEL ENGINEERING INC.	20.0
11	BROWN AND CALDWELL	19.0
12	FREESE AND NICHOLS INC.	15.3
13	JACOBS	10.8
14	OLSSON ASSOCIATES	10.5
15	CAROLLO ENGINEERS	9.1

## SANITARY AND STORM SEWERS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	171.6
2	AECOM	133.1
3	CDM SMITH	97.0
4	BLACK & VEATCH	88.2
5	STANTEC INC.	82.4
6	BROWN AND CALDWELL	61.0
7	TETRA TECH INC.	57.0
8	AEGION CORP.	48.6
9	HDR	43.8
10	LJA ENGINEERING INC.	37.7
11	CAROLLO ENGINEERS	35.7
12	GREELEY AND HANSEN	32.4
13	MOTT MACDONALD	32.0
14	WADE TRIM	30.0
15	DEWBERRY	26.5
16	WESTON & SAMPSON	24.7
17	KIMLEY-HORN	22.8
18	LOUIS BERGER	20.0
19	D&B ENGINEERS AND ARCHITECTS PC	18.1
20	BURNS & MCDONNELL	15.6
21	STRAND ASSOCIATES INC.	14.7
22	DLZ CORP.	14.1
23	FREESE AND NICHOLS INC.	13.3
24	WRIGHT-PIERCE	11.3
25	RK&K	11.2

## WASTEWATER TREATMENT PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	434.6
2	AECOM	195.3
3	BROWN AND CALDWELL	150.0
4	BLACK & VEATCH	142.5
5	CAROLLO ENGINEERS	132.6
6	HDR	110.6
7	CDM SMITH	92.7
8	STANTEC INC.	92.7
9	TETRA TECH INC.	91.0
10	ARCADIS NORTH AMERICA/CALLISONRTKL	88.0
11	BURNS & MCDONNELL	48.0
12	GREELEY AND HANSEN	29.4
13	FREESE AND NICHOLS INC.	22.8
14	MOTT MACDONALD	21.4
15	D&B ENGINEERS AND ARCHITECTS PC	20.4
16	GANNETT FLEMING	18.5
17	DONOHUE & ASSOCIATES INC.	17.2
18	BURGESS & NIPLÉ INC.	16.7
19	JOHNSON, MIRMIRAN & THOMPSON INC.	15.2
20	WRIGHT-PIERCE	13.8
21	STRAND ASSOCIATES INC.	12.7
22	HR GREEN INC.	9.1
23	DUDEK	9.1
24	RK&K	8.7
25	PARAMETRIX	8.6

## CHEMICAL AND SOIL REMEDIATION

RANK	FIRM	REVENUE (\$ MIL.)
1	AECOM	587.4
2	JACOBS	461.5
3	ARCADIS NORTH AMERICA/CALLISONRTKL	460.0
4	LEIDOS	256.0
5	TETRA TECH INC.	222.0
6	PARSONS	153.2
7	CDM SMITH	106.8
8	TRC	75.3
9	BECHTEL	71.0
10	GEOSYNTEC CONSULTANTS INC.	70.1
11	BROWN AND CALDWELL	44.0
12	STANTEC INC.	30.9
13	GEI CONSULTANTS INC.	25.9
14	ECOLOGY AND ENVIRONMENT INC.	25.3
15	BURNS & MCDONNELL	23.9
16	WSP USA	22.0
17	HDR	19.6
18	LOUIS BERGER	19.0
19	BLACK & VEATCH	17.5
20	TERRACON CONSULTANTS INC.	13.5

## SOLID WASTE

RANK	FIRM	REVENUE (\$ MIL.)
1	TETRA TECH INC.	176.0
2	SCS ENGINEERS	124.6
3	JACOBS	53.9
4	GEOSYNTEC CONSULTANTS INC.	51.4
5	HDR	46.6
6	GOLDER ASSOCIATES CORP.	32.9
7	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	27.3
8	CDM SMITH	21.1
9	BLACK & VEATCH	12.4
10	AECOM	11.3

## NUCLEAR WASTE

RANK	FIRM	REVENUE (\$ MIL.)
1	FLUOR CORP.	390.9
2	JACOBS	365.8
3	LEIDOS	209.2
4	GEOSYNTEC CONSULTANTS INC.	14.7
5	ECOLOGY AND ENVIRONMENT INC.	2.0

## ASBESTOS AND LEAD ABATEMENT

RANK	FIRM	REVENUE (\$ MIL.)
1	TERRACON CONSULTANTS INC.	31.0
2	TRC	21.3
3	WSP USA	8.6
4	PARTNER ENGINEERING AND SCIENCE INC.	6.5
5	NINYO & MOORE GEOTECH & ENVIRON.	2.1

## CLEAN AIR COMPLIANCE

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	123.9
2	PARSONS	50.9
3	AECOM	37.1
4	TRC	35.8
5	TETRA TECH INC.	30.0
6	CDM SMITH	16.2
7	WSP USA	10.7
8	GEOSYNTEC CONSULTANTS INC.	7.1
9	LEIDOS	4.2
10	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	3.6

## SITE ASSESSMENT AND COMPLIANCE

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	656.3
2	AECOM	520.4
3	TETRA TECH INC.	281.0
4	ARCADIS NORTH AMERICA/CALLISONRTKL	196.0
5	TRC	76.7
6	LEIDOS	70.2
7	TERRACON CONSULTANTS INC.	61.0
8	GEOSYNTEC CONSULTANTS INC.	56.2
9	BROWN AND CALDWELL	40.0
10	BURNS & MCDONNELL	34.0
11	SCS ENGINEERS	32.1
12	WSP USA	19.0
13	GEI CONSULTANTS INC.	11.4
14	STANTEC INC.	10.8
15	MICHAEL BAKER INTERNATIONAL	10.3



**LARGEST PLANT** First Solar's Ohio module facility will produce thin film PV panels.

## Solar Plant Shows Shift

Sustainability, lean production are pushing manufacturing

**T**he 1.1-million-sq-ft First Solar Modular Manufacturing Plant planned for Lake Township, Ohio, will be the single largest thin-film solar module manufacturing facility in the U.S. when it's completed in late 2019. The largest manufacturer of photovoltaic panels in the U.S., Tempe, Ariz.-based First Solar will produce cadmium-telluride PV panels at the plant. "The project has an aggressive schedule—we started the design for the facility in March and broke ground for construction this June," says George Barbu, vice president of Ghafari Associates, architect/engineer of the project. "Our team has worked hand in hand with project stakeholders to help them achieve their distinct goals for this project." The seasonally adjusted IHS Markit final U.S. Manufacturing Purchasing Managers' Index marked the second-strongest improvement in the health of the sector since September 2014. ENR's top manufacturing design firms are providing more services such as facility planning and prefabrication of equipment. Joint ventures between companies that would otherwise be competitors remain popular, particularly in the southern U.S. Green technology continues to drive manufacturing. ■

*By Jeff Yoders*

**56.4**

IHS/Markit U.S. Manufacturing Purchasing Managers' Index for May.

*"Our team has worked hand in hand with project stakeholders to help them achieve their distinct goals for this project."*

*—George Barbu, Ghafari VP*

**2018**

**IBI Group's design for Detroit's Flex-N-Gate facility for auto parts will be open by the end of the year.**

### **Koch Modular Process Systems Recycling Polypropylene**

PureCycle Technologies, a subsidiary of Innventure, is planning a \$120-million polypropylene recycling plant in Ironton, Ohio. The project, scheduled for completion by 2020, will provide 60 jobs. It utilizes technology developed by Procter & Gamble to recycle polypropylene—used in most polymer products—back to its original state for use in new products, some of which will be used by Procter & Gamble's Cincinnati operations. Koch Modular Process Systems is the architect/engineer for the project. "What will improve the situation for plastics recycling over time will be the ability to make higher value products with recycled material," says PureCycle Technologies CEO Mike Otworth.

### **IBI Group Flex-N-Gate Detroit**

Automotive supplier Flex-N-Gate committed \$95 million to build a 700,000-sq-ft automotive production facility on a site that's been vacant for 15 years. IBI Group of Toronto will serve as architect/engineer for the plant, which will include auto part engineering, welding, molding, painting, plating, assembly and shipping. The building will also include a 40,000-sq-ft, two-story office space. The structure's design and programming emphasizes lean manufacturing processes and principles.

### **Ghafari Associates Mazda Toyota, Huntsville**

Toyota Manufacturing USA's joint venture is a \$1.6-billion investment between the two global automakers in Huntsville, Ala. The Ghafari design team is providing comprehensive architecture and engineering services for the nearly 6-million-sq-ft automotive production facility to be developed on a greenfield site. "This facility will be among the largest of its kind in terms of size and operational capacity," says Michael Swiatkowski, Ghafari's director of project management. Mark Brazeal, vice president of administration for Mazda Toyota, said the overall philosophy of the joint venture is to share the best manufacturing practices of both individual companies.

# The Top Design Firms in Manufacturing, Telecom

## INDUSTRIAL PROCESS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	1108.2
2	INTERTEK-PSI	507.4
3	FLUOR CORP.	382.9
4	BECHTEL	331.0
5	WOOD PLC	186.7
6	HARGROVE ENGINEERS + CONSTRUCTORS	149.1
7	CRB	143.0
8	IPS-INTEGRATED PROJECT SERVICES LLC	123.9
9	GOLDER ASSOCIATES CORP.	114.2
10	S&B ENGINEERS AND CONSTRUCTORS LTD.	80.5
11	FOTH COS.	78.6
12	DENNIS GROUP	59.2
13	AECOM	55.5
14	DAY & ZIMMERMANN	41.5
15	GP STRATEGIES CORP.	40.9
16	LOUIS BERGER	39.0
17	BURNS & MCDONNELL	37.8
18	BUREAU VERITAS	35.1
19	POWER ENGINEERS INC.	34.9
20	BARR ENGINEERING CO.	34.0
21	SSEO GROUP	33.9
22	STANTEC INC.	31.9
23	ZACHRY GROUP	31.7
24	KIEWIT CORP.	31.0
25	OBG	23.0
26	EWINGCOLE	21.4
27	THE YATES COS. INC.	20.7
28	ON-BOARD ENGINEERING	20.3
29	TETRA TECH INC.	20.0
30	PCI SKANSKA	18.5
31	WUNDERLICH-MALEC ENGINEERING	18.0
32	CDI CORP.	17.7
33	THERMALTECH ENGINEERING INC.	16.1
34	WOODARD & CURRAN	14.5
35	EN ENGINEERING LLC	13.9
36	SNC-LAVALIN INC.	13.0
37	KLEINFELDER	12.6
38	SHANNON & WILSON INC.	11.7
39	WSP USA	11.1
40	TERRACON CONSULTANTS INC.	11.0
41	HIXSON ARCHITECTURE, ENGINEERING, INTERIORS	11.0
42	EXP	11.0
43	BILFINGER INDUSTRIAL SERVICES N. AMERICA	11.0
44	PARSONS	10.2
45	GANNETT FLEMING	10.2
46	ORBITAL ENGINEERING INC.	10.0
47	MIDDOUGH INC.	9.8
48	JENSEN HUGHES	9.7
49	DLZ CORP.	9.0
50	ISG	7.4

## MANUFACTURING

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	372.2
2	WOOD PLC	99.1
3	GHAFARI ASSOCIATES LLC	86.4
4	SSEO GROUP	82.6
5	BUREAU VERITAS	74.9
6	FLUOR CORP.	68.8
7	INTERTEK-PSI	66.7
8	GOLDER ASSOCIATES CORP.	57.9
9	CHA CONSULTING INC.	54.8
10	AECOM	47.7
11	TETRA TECH INC.	38.0
12	M+W GROUP	38.0
13	CDI CORP.	34.1
14	BURNS & MCDONNELL	30.6
15	MATRIX TECHNOLOGIES INC.	28.7
16	OBG	27.1
17	WUNDERLICH-MALEC ENGINEERING	26.5
18	IBI GROUP	25.3
19	RCM TECHNOLOGIES INC.	24.9
20	STANTEC INC.	24.7
21	BARGE DESIGN SOLUTIONS INC.	22.2
22	RS&H INC.	20.6
23	MERRICK & CO.	18.0
24	BARR ENGINEERING CO.	15.2
25	BRPH	15.0
26	EPSTEIN	13.8
27	ECS	13.5
28	DESIGN SYSTEMS INC.	12.9
29	RUDOLPH LIBBE COS. INC.	12.1
30	GRESHAM, SMITH AND PARTNERS	11.2
31	TERRACON CONSULTANTS INC.	11.0
32	TKDA	10.7
33	ALBERT KAHN ASSOCIATES INC.	9.5
34	GENSLER	9.2
35	S&ME INC.	9.1
36	COFFMAN ENGINEERS INC.	8.8
37	THE MANNIK & SMITH GROUP INC.	8.5
38	JENSEN HUGHES	8.1
39	ISG	7.4
40	SHIVE-HATTERY	6.9
41	MCMILLAN PAZDAN SMITH	6.6
42	MCKIM & CREED INC.	6.1
43	PRIMUS BUILDERS INC.	6.0
44	SME	5.8
45	ON-BOARD ENGINEERING	5.8
46	PROFESSIONAL ENGINEERING CONSULTANTS PA	5.5
47	C&S COS.	5.0
48	MARTIN/MARTIN INC.	4.8
49	AMERICAN STRUCTUREPOINT	4.6
50	BERGMANN	4.6

## TELECOMMUNICATIONS

RANK	FIRM	REVENUE (\$ MIL.)
1	BLACK & VEATCH	159.6
2	JACOBS	120.9
3	TOWER ENGINEERING PROFESSIONALS	63.1
4	BECHTEL	53.0
5	CORGAN	49.3
6	EXP	32.0
7	KCI TECHNOLOGIES INC.	31.3
8	BURNS & MCDONNELL	29.5
9	AECOM	28.8
10	ESD	28.3
11	ADVANTAGE ENGINEERS	28.0
12	WILLDAN GROUP INC.	25.0
13	PARSONS	21.2
14	TERRACON CONSULTANTS INC.	21.0
15	VANDERWEIL ENGINEERS	20.4
16	GHILOTTI BROS. INC.	20.0
17	GENSLER	19.5
18	MORRISON HERSHFIELD	19.4
19	KW MISSION CRITICAL ENGINEERING	18.8
20	MISSION CRITICAL PARTNERS	18.7
21	SYSKA HENNESSY GROUP	17.7
22	TECTONIC ENGINEERING & SURVEYING CONSULTANTS PC	17.6
23	INTERTEK-PSI	17.3
24	HBK ENGINEERING LLC	16.6
25	SHEEHAN NAGLE HARTRAY ARCHITECTS LTD.	16.5
26	GPD GROUP	16.4
27	SALAS O'BRIEN	16.0
28	T. BAKER SMITH LLC	15.5
29	DEWBERRY	12.6
30	FULLERTON ENGINEERING CONSULTANTS INC.	12.0
31	TETRA TECH INC.	11.0
32	KMB DESIGN GROUP LLC	10.9
33	BINKLEY & BARFIELD INC.	10.7
34	HIGHLAND ASSOCIATES LTD.	10.6
35	COBB, FENDLEY & ASSOCIATES INC.	9.7
36	MESA ASSOCIATES INC.	9.0
37	OLSSON ASSOCIATES	8.8
38	MASER CONSULTING PA	8.3
39	ROBERT DERECTOR ASSOCIATES	8.0
40	GOLDER ASSOCIATES CORP.	7.5
41	IBI GROUP	7.2
42	WUNDERLICH-MALEC ENGINEERING	7.2
43	BUREAU VERITAS	6.7
44	WOOD PLC	5.9
45	SAM LLC	5.7
46	KADRMAS LEE & JACKSON (KLJ)	5.3
47	CARDNO INC.	5.1
48	PAGE SOUTHERLAND PAGE INC.	5.0
49	PENNONI	4.9
50	CDI CORP.	4.7

## CHEMICAL PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	368.1
2	BECHTEL	201.0
3	HARGROVE ENGINEERS + CONSTRUCTORS	116.6
4	S&B ENGINEERS AND CONSTRUCTORS LTD.	42.0
5	DAY & ZIMMERMANN	41.5
6	FLUOR CORP.	29.0
7	GOLDER ASSOCIATES CORP.	21.2
8	TETRA TECH INC.	20.0
9	ZACHRY GROUP	15.8
10	CDI CORP.	15.3
11	HGA	12.3
12	WSP USA	11.1
13	BURNS & MCDONNELL	7.2
14	SSOE GROUP	5.1
15	TERRACON CONSULTANTS INC.	5.0
16	MATRIX TECHNOLOGIES INC.	3.5
17	AECOM	3.4
18	IPS-INTEGRATED PROJECT SERVICES LLC	1.9
19	WHITNEY BAILEY COX & MAGNANI LLC	1.8
20	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	1.4

## STEEL AND NON-FERROUS PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	FLUOR CORP.	197.9
2	BECHTEL	129.0
3	JACOBS	111.8
4	GOLDER ASSOCIATES CORP.	76.6
5	AECOM	45.5

## PHARMACEUTICALS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	492.2
2	FLUOR CORP.	146.0
3	CRB	135.9
4	IPS-INTEGRATED PROJECT SERVICES LLC	122.0
5	EWINGCOLE	21.4
6	STANTEC INC.	14.2
7	MATRIX TECHNOLOGIES INC.	8.1
8	HARGROVE ENGINEERS + CONSTRUCTORS	7.3
9	AECOM	6.7
10	SNC-LAVALIN INC.	5.9

## ELECTRONIC ASSEMBLY

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	65.4
2	CDI CORP.	22.2
3	CHA CONSULTING INC.	8.8
4	T&M ASSOCIATES	1.4
5	GOLDER ASSOCIATES CORP.	0.8

## FOOD AND BEVERAGE

RANK	FIRM	REVENUE (\$ MIL.)
1	DENNIS GROUP	59.2
2	STELLAR	35.6
3	POWER ENGINEERS INC.	34.9
4	KIEWIT CORP.	31.0
5	JACOBS	30.1
6	BURNS & MCDONNELL	25.0
7	SSOE GROUP	18.7
8	MATRIX TECHNOLOGIES INC.	17.1
9	ZACHRY GROUP	14.4
10	FLUOR CORP.	9.9

## PULP AND PAPER

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	106.0
2	S&B ENGINEERS AND CONSTRUCTORS LTD.	34.6
3	HARGROVE ENGINEERS + CONSTRUCTORS	20.8
4	STANTEC INC.	9.3
5	HGA	1.6

## AUTO PLANTS

RANK	FIRM	REVENUE (\$ MIL.)
1	GHAFARI ASSOCIATES LLC	86.4
2	JACOBS	28.8
3	STANTEC INC.	23.4
4	AECOM	22.1
5	SSOE GROUP	17.7
6	GOLDER ASSOCIATES CORP.	11.2
7	ALBERT KAHN ASSOCIATES INC.	9.0
8	GRESHAM, SMITH AND PARTNERS	7.3
9	SNC-LAVALIN INC.	6.0
10	CHA CONSULTING INC.	4.7

## SEMICONDUCTORS

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	154.5
2	SSOE GROUP	48.1
3	SNC-LAVALIN INC.	15.2
4	BERGMANN	1.0
5	CDI CORP.	0.4

## AEROSPACE

RANK	FIRM	REVENUE (\$ MIL.)
1	JACOBS	123.5
2	TETRA TECH INC.	38.0
3	BURNS & MCDONNELL	29.1
4	BRPH	19.6
5	RS&H INC.	10.3
6	CDI CORP.	10.2
7	FLUOR CORP.	5.8
8	P2S INC.	3.3
9	PROFESSIONAL ENGINEERING CONSULTANTS PA	2.8
10	RBA BUILDERS INC.	1.8

## MINING

RANK	FIRM	REVENUE (\$ MIL.)
1	GOLDER ASSOCIATES CORP.	189.0
2	LOUIS BERGER	40.0
3	STANTEC INC.	33.3
4	WSP USA	9.4
5	WALDEMAR S. NELSON AND CO. INC.	7.7
6	CIVIL & ENVIRONMENTAL CONSULTANTS INC.	6.1
7	GEI CONSULTANTS INC.	4.2
8	NINYO & MOORE GEOTECH & ENVIRON.	4.0
9	GEOSYNTEC CONSULTANTS INC.	3.9
10	ECOLOGY AND ENVIRONMENT INC.	3.1

## TRANSMISSION LINES AND CABLING

RANK	FIRM	REVENUE (\$ MIL.)
1	BLACK & VEATCH	48.8
2	KCI TECHNOLOGIES INC.	29.3
3	BECHTEL	25.0
4	JACOBS	23.0
5	BURNS & MCDONNELL	14.3

## TOWERS AND ANTENNAE

RANK	FIRM	REVENUE (\$ MIL.)
1	BLACK & VEATCH	97.7
2	TOWER ENGINEERING PROFESSIONALS	63.1
3	JACOBS	53.7
4	ADVANTAGE ENGINEERS	24.0
5	PARSONS	21.2
6	TECTONIC ENGINEERING & SURVEYING CONSULTANTS PC	17.6
7	BECHTEL	16.0
8	TERRACON CONSULTANTS INC.	16.0
9	INTERTEK-PSI	11.6
10	MORRISON HERSHFIELD	11.5

## DATA CENTERS

RANK	FIRM	REVENUE (\$ MIL.)
1	CORGAN	49.3
2	JACOBS	44.2
3	EXP	33.4
4	AECOM	28.8
5	VANDERWEIL ENGINEERS	17.7
6	SHEEHAN NAGLE HARTRAY ARCHITECTS LTD.	17.0
7	SALAS O'BRIEN	16.0
8	MORRISON HERSHFIELD	7.9
9	INTERTEK-PSI	5.8
10	TERRACON CONSULTANTS INC.	5.0

RANK 2018	RANK 2017	FIRM	FIRM TYPE	2017 REVENUE \$ MIL.		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL	INT'L									
1	2	JACOBS, Dallas, Texas†	EAC	9,761.9	3,798.0	9	4	2	7	7	31	24	16	1
2	1	AECOM, Los Angeles, Calif.†	EAC	7,419.3	3,512.2	22	1	7	7	5	2	40	15	0
3	4	FLUOR CORP., Irving, Texas†	EC	3,258.0	2,281.3	0	2	1	0	0	84	1	12	0
4	5	TETRA TECH INC., Pasadena, Calif.†	E	2,798.0	789.0	1	1	9	39	12	10	9	19	0
5	9	KBR INC., Houston, Texas†	EC	2,557.0	1,339.0	0	0	1	1	0	67	1	0	0
6	8	HDR, Omaha, Neb.†	EA	2,023.5	197.7	21	0	9	10	10	1	48	1	0
7	28	WOOD PLC, Houston, Texas†	EC	1,923.7	511.3	5	5	10	4	4	45	10	13	0
8	10	STANTEC INC., Irvine, Calif.†	EAL	1,657.8	0.0	29	1	8	12	11	6	28	3	0
9	16	BURNS & MCDONNELL, Kansas City, Mo.†	EAC	1,472.4	26.2	4	2	54	5	5	13	11	4	2
10	15	BLACK & VEATCH, Overland Park, Kan.†	EC	1,450.8	429.1	3	0	47	16	17	5	0	1	11
11	12	PARSONS, Pasadena, Calif.†	EC	1,435.1	343.5	6	0	0	3	1	2	73	14	1
12	14	WSP USA, New York, N.Y.	E	1,408.7	37.0	15	0	6	0	0	4	69	4	0
13	13	ARCADIS NORTH AMERICA/CALLISONRTKL, Highlands Ranch, Colo.†	EA	1,359.0	237.0	29	0	0	10	6	0	6	48	0
14	17	INTERTEK-PSI, Arlington Heights, Ill.†	E	1,268.6	614.5	19	5	14	0	1	52	6	2	1
15	18	GENSLER, San Francisco, Calif.	A	1,197.6	210.0	92	1	0	0	0	0	5	0	2
16	19	HNTB COS., Kansas City, Mo.	EA	1,125.1	1.4	3	0	0	1	1	0	95	0	0
17	11	BECHTEL, San Francisco, Calif.†	EC	1,102.0	585.0	0	0	9	1	0	64	14	7	5
18	20	GOLDER ASSOCIATES CORP., Palm Beach, Fla.†	E	955.6	728.0	11	6	8	2	5	26	15	0	1
19	23	TRC, Lowell, Mass.	E	883.9	11.9	5	0	36	0	0	20	15	24	0
20	21	KIMLEY-HORN, Raleigh, N.C.	E	810.6	1.4	44	0	1	4	3	0	48	0	0
21	26	LOUIS BERGER, Morristown, N.J.†	EA	731.0	80.0	5	0	25	1	3	5	44	3	0
22	6	CB&I, The Woodlands, Texas†	EC	722.0	553.5	0	0	19	0	0	33	0	0	0
23	24	CDM SMITH, Boston, Mass.†	EA	700.0	123.8	2	0	2	22	30	1	26	18	0
24	30	TERRACON CONSULTANTS INC., Olathe, Kan.†	E	672.0	3.0	44	2	10	2	2	6	15	16	3
25	29	GHD INC., Irvine, Calif.†	E/ENV	651.8	208.9	19	0	0	15	11	6	13	31	0
26	25	BUREAU VERITAS, Fort Lauderdale, Fla.†	E	613.4	0.0	13	12	4	2	2	36	8	9	1
27	22	LEIDOS, Reston, Va.	E	608.4	2.9	0	1	11	0	0	0	0	89	0
28	27	WORLEYPARSONS, Houston, Texas	EC	601.6	16.7	1	0	10	0	0	73	0	14	0
29	31	PERKINS+WILL, Chicago, Ill.†	A	551.4	125.2	94	0	0	0	0	0	6	0	0
30	32	MICHAEL BAKER INTERNATIONAL, Pittsburgh, Pa.†	EA	531.0	0.7	21	0	0	19	0	3	52	3	1
31	**	SNC-LAVALIN INC., Bothell, Wash.†	EC	500.9	22.4	10	0	12	9	0	6	59	1	0
32	35	EXP, Chicago, Ill.	EA	497.4	296.8	41	0	2	3	4	9	15	0	6
33	34	MOTT MACDONALD, Iselin, N.J.†	EC	492.0	41.5	3	0	4	6	11	33	41	2	0
34	41	KIEWIT CORP., Omaha, Neb.†	EC	481.8	16.8	0	0	75	0	0	18	6	0	0
35	42	POWER ENGINEERS INC., Hailey, Idaho	E	456.7	17.2	0	0	92	0	0	8	0	0	0
36	39	HOK, St. Louis, Mo.	AE	453.4	83.1	86	0	0	0	0	0	14	0	0
37	40	STV GROUP INC., New York, N.Y.†	EA	427.6	16.8	16	0	0	0	0	0	84	0	0
38	36	SARGENT & LUNDY LLC, Chicago, Ill.†	E	415.8	43.6	0	0	100	0	0	0	0	0	0
39	51	GANNETT FLEMING, Camp Hill, Pa.	EA	410.0	48.1	3	0	5	13	5	2	69	3	0
40	45	HKS, Dallas, Texas	A	408.6	40.6	98	0	0	0	0	0	2	0	0
41	33	S&B ENGINEERS AND CONSTRUCTORS LTD. & AFFIL., Houston, Texas†	EC	407.2	0.0	0	0	0	0	0	96	4	0	0
42	47	DEWBERRY, Fairfax, Va.†	EA	406.3	0.2	33	0	4	18	8	0	33	1	3
43	50	ARUP, New York, N.Y.	E	377.6	40.1	41	0	0	2	0	7	49	0	1
44	48	BROWN AND CALDWELL, Walnut Creek, Calif.†	E	373.0	0.0	0	0	0	21	57	0	0	23	0
45	54	NV5 GLOBAL INC., Hollywood, Fla.†	E	367.1	13.4	50	0	16	5	1	2	20	6	1
46	49	IBI GROUP, Westerville, Ohio†	EA	362.0	248.6	73	7	2	2	0	0	14	0	2
47	44	CARDNO INC., Lone Tree, Colo.	E/ENV	353.7	10.6	32	0	7	2	0	19	19	0	1
48	46	T.Y. LIN INTERNATIONAL, San Francisco, Calif.†	EA	352.9	191.5	8	0	0	1	2	0	89	0	0
49	52	SKIDMORE, OWINGS & MERRILL LLP, New York, N.Y.†	AE	351.1	158.1	86	0	0	0	0	0	14	0	0
50	43	FUGRO, Houston, Texas†	GE	320.0	70.0	0	0	9	3	0	39	11	0	0



#1

JACOBS has overtaken AECOM to become No. 1 on the Top 500 for the first time since 2009, thanks to its 2017 acquisition of CH2M.

RANK 2018	RANK 2017	FIRM	FIRM TYPE	2017 REVENUE \$ MIL.		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL	INT'L									
51	65	GULF INTERSTATE ENGINEERING CO., Houston, Texas†	EC	305.8	14.6	0	0	0	0	0	100	0	0	0
52	53	AEGION CORP., Chesterfield, Mo.	EC	303.4	123.5	3	0	1	1	16	77	3	0	0
53	56	GEOSYNTEC CONSULTANTS INC., Atlanta, Ga.†	E	284.9	38.3	0	0	12	4	19	9	2	52	0
54	61	CHA CONSULTING INC., Albany, N.Y.†	EA	278.0	15.3	42	20	11	2	4	2	18	1	0
55	67	ZACHRY GROUP, San Antonio, Texas†	EC	276.0	0.0	0	0	55	0	0	44	0	0	0
56	57	GREENMAN-PEDERSEN (GPI), Babylon, N.Y.†	E	274.7	0.2	9	0	4	1	1	1	81	0	0
57	64	JOHNSON, MIRMIRAN & THOMPSON INC., Hunt Valley, Md.†	EA	273.5	0.0	3	0	0	0	6	0	92	0	0
58	72	WILLDAN GROUP INC., Anaheim, Calif.	E	273.0	0.0	39	0	30	0	0	0	14	0	9
59	59	CAROLLO ENGINEERS, Walnut Creek, Calif.	E	271.8	0.0	0	0	0	38	62	0	0	0	0
60	55	KLEINFELDER, San Diego, Calif.†	EA	267.3	21.6	10	1	13	10	18	21	21	2	2
61	62	THORNTON TOMASETTI INC., New York, N.Y.	EA	265.0	47.2	84	0	0	0	0	2	13	0	1
62	38	CDI CORP., Philadelphia, Pa.†	EA	263.5	45.7	4	13	9	0	0	63	7	0	2
63	63	SMITHGROUPJJR, Detroit, Mich.	AE	256.7	3.1	100	0	0	0	0	0	0	0	0
64	60	LANGAN, Parsippany, N.J.†	E	248.0	10.3	47	0	6	0	0	10	7	31	0
65	70	RS&H INC., Jacksonville, Fla.†	EA	245.0	0.0	7	8	0	0	0	0	85	0	0
66	66	HAZEN AND SAWYER, New York, N.Y.	E	244.0	3.4	0	0	0	30	70	0	0	0	0
67	58	ENERCON SERVICES INC., Kennesaw, Ga.	EA	232.9	8.9	0	0	98	0	0	2	0	0	0
68	75	KCI TECHNOLOGIES INC., Sparks, Md.†	EC	231.5	0.0	14	0	7	4	4	0	53	1	14
69	71	VHB, Watertown, Mass.	E	227.5	0.0	29	0	10	0	3	0	56	1	1
70	73	HARGROVE ENGINEERS + CONSTRUCTORS, Mobile, Ala.†	E	227.2	0.5	1	0	9	0	0	90	0	0	0
71	68	PERKINS EASTMAN, New York, N.Y.†	A	225.0	54.0	100	0	0	0	0	0	0	0	0
72	84	DLR GROUP, Minneapolis, Minn.	AE	217.8	3.6	100	0	0	0	0	0	0	0	0
73	76	RK&K, Baltimore, Md.	E	216.0	0.0	2	0	0	3	9	2	84	0	0
74	74	WOODARD & CURRAN, Portland, Maine	ENV	204.0	0.0	2	1	0	18	46	7	1	24	0
75	81	ECS, Chantilly, Va.†	E	203.1	1.8	28	7	4	2	15	2	10	17	1
76	69	TRANSYSTEMS, Kansas City, Mo.	E	196.6	0.0	0	0	0	0	0	0	100	0	0
77	77	CORGAN, Dallas, Texas	A	196.4	3.9	41	0	0	0	0	0	34	0	25
78	82	PENNONI, Philadelphia, Pa.†	E	195.3	0.3	30	0	2	2	4	9	40	6	2
79	79	CANNONDESIGN, Grand Island, N.Y.	AE	191.4	18.4	100	0	0	0	0	0	0	0	0
80	78	STANLEY CONSULTANTS INC., Muscatine, Iowa†	EA	183.9	31.7	9	0	40	11	3	0	37	0	0
81	97	TRANSCORE, Nashville, Tenn.	EC	180.9	18.0	0	0	0	0	0	0	100	0	0
82	92	EN ENGINEERING LLC, Warrenton, Ill.†	E	178.2	01.0	0	0	18	0	0	81	1	0	0
83	90	GRESHAM, SMITH AND PARTNERS, Nashville, Tenn.	AE	177.7	3.7	47	6	0	2	13	1	31	0	0
84	101	KPFF CONSULTING ENGINEERS, Seattle, Wash.	E	174.8	4.5	85	1	0	0	0	0	15	0	0
85	105	JENSEN HUGHES, Baltimore, Md.	E	174.2	22.0	48	5	3	0	0	6	7	0	1
86	**	NELSON, Philadelphia, Pa.	AE	173.4	1.8	100	0	0	0	0	0	0	0	0
87	94	VOLKERT INC., Mobile, Ala.†	E	173.1	0.0	6	0	14	0	2	0	77	0	0
88	85	NBBJ, Seattle, Wash.†	A	167.9	27.3	100	0	0	0	0	0	0	0	0
89	87	KOHN PEDERSEN FOX ASSOCIATES PC, New York, N.Y.†	A	166.7	126.3	82	0	0	0	0	0	18	0	0
90	99	SCS ENGINEERS, Long Beach, Calif.†	ENV	166.2	3.2	0	0	0	0	75	0	0	25	0
91	89	LEO A DALY, Omaha, Neb.†	AE	164.8	4.2	57	0	0	12	9	3	19	0	0
92	102	GEI CONSULTANTS INC., Woburn, Mass.	E	162.7	0.5	14	0	17	37	4	1	7	21	0
93	86	HGA, Minneapolis, Minn.	AE	161.0	1.0	100	0	0	0	0	0	0	0	0
94	83	S&ME INC., Raleigh, N.C.†	E	161.0	0.0	32	6	7	5	11	13	14	10	1
95	110	WOOLPERT INC., Dayton, Ohio	AEG	160.8	0.0	19	1	3	0	9	0	2	0	0
96	98	ZGF ARCHITECTS LLP, Portland, Ore.	A	159.5	11.0	94	0	0	0	0	0	5	0	0
97	80	POPULOUS, Kansas City, Mo.†	A	158.5	49.1	100	0	0	0	0	0	0	0	0
98	106	OLSSON ASSOCIATES, Lincoln, Neb.	E	156.9	0.0	43	0	1	9	2	0	16	3	6
99	95	DAVID EVANS ENTERPRISES INC., Portland, Ore.†	E	153.9	0.2	29	0	4	1	1	0	39	0	0
100	**	UNIVERSALPEGASUS INTERNATIONAL, Houston, Texas	E	150.0	0.0	0	0	0	0	0	100	0	0	0



#22

CB&I shareholders on May 2 voted to approve its proposed merger with engineer-constructor McDermott International, Houston.

RANK 2018	RANK 2017	FIRM	FIRM TYPE	2017 REVENUE \$ MIL.		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM	
				TOTAL	INT'L										
151	146	<b>SYSKA HENNESSY GROUP</b> , New York, N.Y.†	E	94.9	1.5	71	0	1	0	0	0	9	0	19	
152	165	<b>WESTON &amp; SAMPSON</b> , Peabody, Mass.†	E	93.9	0.0	5	0	3	21	38	0	10	10	0	
153	169	<b>LPA INC.</b> , Irvine, Calif.	AE	93.6	0.0	100	0	0	0	0	0	0	0	0	
154	157	<b>BKF ENGINEERS</b> , Redwood City, Calif.	E	93.1	0.0	77	0	0	0	0	0	23	0	0	
155	130	<b>KADRMAS LEE &amp; JACKSON (KLJ)</b> , Bismarck, N.D.	E	92.9	0.0	2	0	4	5	6	7	52	0	6	
156	205	<b>EFI GLOBAL INC.</b> , Tampa, Fla.	E	92.7	16.0	66	4	1	0	0	0	10	18	0	
157	135	<b>DAY &amp; ZIMMERMANN</b> , Philadelphia, Pa.†	EA	91.9	31.9	54	0	0	0	0	45	0	0	0	
158	181	<b>PBK</b> , Houston, Texas	AE	91.2	0.7	100	0	0	0	0	0	0	0	0	
159	187	<b>WARE MALCOMB</b> , Irvine, Calif.	AE	91.2	6.3	97	3	0	0	0	0	0	0	0	
160	161	<b>BOLTON &amp; MENK INC.</b> , Mankato, Minn.	E	90.8	0.0	0	0	0	5	17	0	35	0	0	
161	151	<b>VANDERWEIL ENGINEERS</b> , Boston, Mass.	E	89.0	0.9	54	0	21	0	0	0	2	0	23	
162	149	<b>TECTONIC ENGINEERING &amp; SURVEYING CONSULTANTS PC</b> , Mountainville, N.Y.†	E	87.7	0.0	31	0	3	1	1	0	27	1	20	
163	147	<b>KENNEDY/JENKS CONSULTANTS INC.</b> , San Francisco, Calif.	E	87.5	0.0	1	2	0	31	38	6	15	7	0	
164	239	<b>PARAMETRIX</b> , Seattle, Wash.	E	86.9	0.0	14	0	0	7	14	0	56	2	0	
165	164	<b>MESA ASSOCIATES INC.</b> , Madison, Ala.	EA	86.5	0.0	0	0	81	1	0	8	0	0	10	
166	192	<b>PARTNER ASSESSMENT CORP. DBA PARTNER ENG'G &amp; SCIENCE</b> , Torrance, Calif.	ENV	85.1	0.2	86	0	0	0	0	0	0	14	0	
167	173	<b>THE BURKE GROUP LTD.</b> , Rosemont, Ill.†	E	85.0	0.0	41	2	0	1	4	2	26	0	2	
168	162	<b>HMC ARCHITECTS</b> , Los Angeles, Calif.	A	85.0	0.0	100	0	0	0	0	0	0	0	0	
169	163	<b>CLARK NEXSEN INC.</b> , Virginia Beach, Va.	AE	84.9	2.6	74	0	0	0	0	4	14	0	3	
170	167	<b>GREELEY AND HANSEN</b> , Chicago, Ill.†	E	84.6	0.9	0	0	0	19	81	0	0	0	0	
171	156	<b>MCCORMICK TAYLOR INC.</b> , Philadelphia, Pa.	E	83.7	0.0	0	0	0	0	0	0	100	0	0	
172	159	<b>ELKUS MANFREDI ARCHITECTS</b> , Boston, Mass.	A	83.3	2.3	100	0	0	0	0	0	0	0	0	
173	191	<b>STUDIOS ARCHITECTURE</b> , Washington, D.C.	A	83.3	17.2	100	0	0	0	0	0	0	0	0	
174	176	<b>RCM TECHNOLOGIES INC.</b> , Pennsauken, N.J.†	EA	82.8	30.6	1	30	68	0	0	1	0	0	0	
175	170	<b>KTGY ARCHITECTURE + PLANNING</b> , Irvine, Calif.	A	82.3	0.2	100	0	0	0	0	0	0	0	0	
176	175	<b>AMERICAN STRUCTUREPOINT</b> , Indianapolis, Ind.†	EA	82.3	0.0	23	6	0	6	10	0	53	0	2	
177	200	<b>LS3P</b> , Charleston, S.C.	A	81.0	0.0	100	0	0	0	0	0	0	0	0	
178	172	<b>LITTLE</b> , Charlotte, N.C.	AE	80.8	0.1	100	0	0	0	0	0	0	0	0	
179	171	<b>BOWMAN CONSULTING GROUP</b> , Chantilly, Va.	E	80.2	0.0	40	0	0	0	16	23	8	11	0	3
180	186	<b>HARDESTY &amp; HANOVER LLC</b> , New York, N.Y.	E	80.2	0.2	0	0	0	0	0	0	100	0	0	
181	154	<b>MIDDOUGH INC.</b> , Cleveland, Ohio	EA	80.0	0.0	6	4	5	0	0	85	0	0	0	
182	199	<b>BARGE DESIGN SOLUTIONS INC.</b> , Nashville, Tenn.†	EA	79.9	1.7	25	28	1	8	13	1	15	3	1	
183	174	<b>JONES I CARTER</b> , Bellaire, Texas	E	79.7	0.0	64	0	0	5	21	0	11	0	0	
184	193	<b>HANSON PROFESSIONAL SERVICES INC.</b> , Springfield, Ill.†	E	78.7	1.9	11	0	9	2	4	2	69	0	2	
185	188	<b>HARLEY ELLIS DEVEREAUX</b> , Southfield, Mich.†	AE	78.6	0.0	100	0	0	0	0	0	0	0	0	
186	250	<b>LABELLA ASSOCIATES DPC</b> , Rochester, N.Y.†	EA	78.0	1.0	38	3	26	4	4	0	6	6	0	
187	168	<b>RSP ARCHITECTS</b> , Minneapolis, Minn.	AE	77.6	0.1	94	4	0	0	0	0	0	0	0	
188	178	<b>STRAND ASSOCIATES INC.</b> , Madison, Wis.	E	76.8	0.0	3	0	0	16	36	6	35	0	0	
189	227	<b>TIMMONS GROUP INC.</b> , Richmond, Va.	E	76.7	0.0	75	0	11	3	3	0	7	0	0	
190	183	<b>BURGESS &amp; NIPLE INC.</b> , Columbus, Ohio	EA	76.0	0.0	20	1	0	7	25	1	42	3	1	
191	189	<b>AKRF INC.</b> , New York, N.Y.	E/ENV	75.7	0.0	30	0	3	11	3	0	33	21	0	
192	195	<b>ELECTRICAL CONSULTANTS INC.</b> , Billings, Mont.†	E	74.3	0.3	0	0	96	0	0	4	0	0	0	
193	184	<b>ANVIL CORP.</b> , Bellingham, Wash.	E	74.0	0.0	0	0	0	0	0	100	0	0	0	
194	196	<b>EWINGCOLE</b> , Philadelphia, Pa.	AE	72.7	0.0	71	0	0	0	0	29	0	0	0	
195	225	<b>HORD COPLAN MACHT INC.</b> , Baltimore, Md.	A	72.5	0.0	100	0	0	0	0	0	0	0	0	
196	203	<b>HUMPHREYS &amp; PARTNERS ARCHITECTS LP</b> , Dallas, Texas†	A	72.2	2.1	100	0	0	0	0	0	0	0	0	
197	210	<b>UNIVERSAL ENGINEERING SCIENCES INC.</b> , Orlando, Fla.	GE	71.6	0.0	0	0	0	0	0	0	0	0	0	
198	177	<b>NEEL-SCHAFFER INC.</b> , Jackson, Miss.†	E	71.1	0.0	14	0	0	1	9	0	56	5	4	
199	180	<b>ROBERT A.M. STERN ARCHITECTS</b> , New York, N.Y.	A	70.9	11.0	100	0	0	0	0	0	0	0	0	
200	190	<b>FARNSWORTH GROUP</b> , Bloomington, Ill.	EA	69.4	0.1	43	2	3	5	11	23	11	0	0	

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				TOTAL	INT'L									
201	211	<b>BR+A CONSULTING ENGINEERS LLC</b> , Boston, Mass.	E	69.3	0.2	100	0	0	0	0	0	0	0	0
202	201	<b>NINYO &amp; MOORE GEOTECH AND ENVIRON. SCIENCES CONSLTS.</b> , San Diego, Calif.	GE	69.1	0.1	28	0	6	12	9	4	17	16	3
203	235	<b>WUNDERLICH-MALEC ENGINEERING</b> , Eden Prairie, Minn.†	EA	69.1	0.5	4	38	7	0	14	26	0	0	10
204	208	<b>A. MORTON THOMAS AND ASSOCIATES INC.</b> , Rockville, Md.	E	69.0	0.0	15	0	0	11	5	0	69	0	0
205	212	<b>SOLOMON CORDWELL BUENZ</b> , Chicago, Ill.	A	68.9	1.1	91	0	0	0	0	0	9	0	0
206	244	<b>MCKIM &amp; CREED INC.</b> , Raleigh, N.C.	E	68.3	1.0	2	9	11	14	21	9	25	0	0
207	202	<b>HR GREEN INC.</b> , Cedar Rapids, Iowa	E	68.3	0.0	6	0	0	6	26	0	47	1	0
208	233	<b>H2M ARCHITECTS + ENGINEERS</b> , Melville, N.Y.†	AE	67.9	0.0	47	0	0	16	5	0	7	26	0
209	241	<b>PGAL</b> , Houston, Texas	AE	67.5	0.0	36	0	0	0	0	0	64	0	0
210	197	<b>WATG</b> , Irvine, Calif.†	A	67.1	56.6	100	0	0	0	0	0	0	0	0
211	209	<b>WSB &amp; ASSOCIATES INC.</b> , Minneapolis, Minn.	E	67.0	0.0	6	0	0	13	4	6	70	0	0
212	198	<b>COFFMAN ENGINEERS INC.</b> , Seattle, Wash.	E	66.8	0.9	57	13	4	0	0	6	2	0	0
213	216	<b>GOODWYN MILLS CAWOOD</b> , Montgomery, Ala.	AE	66.5	0.0	54	2	0	11	8	0	12	0	0
214	219	<b>COWI NORTH AMERICA INC.</b> , Seattle, Wash.†	E	66.4	21.7	0	0	0	1	2	0	97	0	0
215	213	<b>SMITH SECKMAN REID INC.</b> , Nashville, Tenn.	E	66.2	0.6	80	1	0	6	2	3	7	0	0
216	217	<b>JAROS, BAUM &amp; BOLLES</b> , New York, N.Y.	E	66.0	3.2	95	0	0	0	0	0	2	0	3
217	207	<b>FISHBECK, THOMPSON, CARR &amp; HUBER</b> , Grand Rapids, Mich.	EA	66.0	0.0	30	4	0	4	12	2	40	9	0
218	238	<b>AKF GROUP LLC</b> , New York, N.Y.	E	65.9	4.4	100	0	0	0	0	0	0	0	0
219	265	<b>CP&amp;Y INC.</b> , Dallas, Texas	EA	65.8	0.0	0	0	0	16	11	0	50	0	0
220	249	<b>PATRICK ENGINEERING INC.</b> , Lisle, Ill.	E	65.7	0.0	2	0	46	0	0	4	40	0	2
221	234	<b>HUCKABEE</b> , Fort Worth, Texas†	AE	65.3	0.0	100	0	0	0	0	0	0	0	0
222	240	<b>ARCHITECTS ORANGE</b> , Orange, Calif.	A	64.8	0.6	100	0	0	0	0	0	0	0	0
223	221	<b>GREENBERGFARROW</b> , Atlanta, Ga.†	AE	64.1	5.9	100	0	0	0	0	0	0	0	0
224	204	<b>BERGMANN</b> , Rochester, N.Y.	AEP	64.1	0.5	40	7	4	6	1	3	36	0	0
225	214	<b>ULTEIG ENGINEERS INC.</b> , Fargo, N.D.	E	64.0	0.0	0	0	72	2	0	0	21	0	1
226	223	<b>GEOENGINEERS INC.</b> , Redmond, Wash.	GE	63.5	0.3	31	0	2	11	2	16	9	19	0
227	247	<b>TLC ENGINEERING FOR ARCHITECTURE INC.</b> , Orlando, Fla.	E	63.5	1.0	96	0	0	0	0	0	4	0	0
228	224	<b>WADE TRIM</b> , Detroit, Mich.†	E	63.4	0.0	0	0	2	11	55	9	19	0	0
229	296	<b>TOWER ENGINEERING PROFESSIONALS</b> , Raleigh, N.C.	E	63.1	0.0	0	0	0	0	0	0	0	0	100
230	229	<b>BRPH</b> , Melbourne, Fla.	EA	63.0	3.0	21	24	0	0	0	5	0	0	0
231	253	<b>ESD</b> , Chicago, Ill.	E	63.0	2.9	48	0	0	0	0	0	1	0	45
232	248	<b>CTA ARCHITECTS ENGINEERS</b> , Billings, Mont.	AE	62.8	1.7	100	0	0	0	0	0	0	0	0
233	218	<b>WILSON &amp; CO. INC., ENGINEERS &amp; ARCHITECTS</b> , Albuquerque, N.M.	EA	62.7	0.0	12	0	3	5	2	3	71	0	0
234	251	<b>RABA KISTNER INC.</b> , San Antonio, Texas†	E	62.6	1.2	48	2	0	3	1	0	44	0	1
235	226	<b>BEYER BLINDER BELLE, ARCHITECTS AND PLANNERS LLP</b> , New York, N.Y.	A	62.1	3.5	86	0	0	0	0	0	4	0	0
236	220	<b>HBK ENGINEERING LLC</b> , Chicago, Ill.†	E	61.9	0.0	8	0	44	0	0	12	2	0	27
237	236	<b>COOPER CARRY</b> , Atlanta, Ga.	A	61.8	0.4	100	0	0	0	0	0	0	0	0
238	228	<b>PRIME AE GROUP INC.</b> , Baltimore, Md.†	AE	61.4	0.0	12	0	0	6	2	0	80	0	0
239	243	<b>SHANNON &amp; WILSON INC.</b> , Seattle, Wash.	GE	61.4	0.7	2	1	1	5	4	21	36	0	0
240	194	<b>T&amp;M ASSOCIATES</b> , Middletown, N.J.†	E	61.0	0.0	11	5	0	7	21	0	46	10	0
241	260	<b>TIGHE &amp; BOND INC.</b> , Westfield, Mass.	E	60.5	0.0	14	0	9	23	28	0	9	17	0
242	242	<b>ENNEAD ARCHITECTS</b> , New York, N.Y.†	A	60.0	15.2	100	0	0	0	0	0	0	0	0
243	254	<b>WALKER CONSULTANTS</b> , Tampa, Fla.	EA	59.9	3.0	100	0	0	0	0	0	0	0	0
244	274	<b>RETTEW ASSOCIATES INC.</b> , Lancaster, Pa.†	E	59.7	0.0	10	5	4	0	3	58	12	0	3
245	270	<b>MOSELEY ARCHITECTS</b> , Richmond, Va.†	AE	59.6	0.0	100	0	0	0	0	0	0	0	0
246	268	<b>D&amp;B ENGINEERS AND ARCHITECTS PC</b> , Woodbury, N.Y.	EA	59.5	0.0	0	0	0	7	76	0	3	14	0
247	259	<b>COBB, FENDLEY &amp; ASSOCIATES INC.</b> , Houston, Texas	E	59.2	0.0	7	0	0	0	3	4	68	0	16
248	277	<b>DENNIS GROUP</b> , Springfield, Mass.†	EC	59.2	1.2	0	0	0	0	0	100	0	0	0
249	179	<b>DOWL</b> , Anchorage, Alaska	E	58.9	0.0	32	0	0	10	2	0	40	0	0
250	252	<b>WANTMAN GROUP INC. DBA WGI</b> , West Palm Beach, Fla.	EA	58.8	0.0	37	0	0	2	2	0	60	0	0



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				TOTAL	INT'L									
301	280	DANNENBAUM ENGINEERING CORP., Houston, Texas	E	46.3	0.0	0	0	0	38	5	0	43	0	0
302	343	HART HOWERTON, New York, N.Y.†	A	46.2	8.9	100	0	0	0	0	0	0	0	0
303	**	BCC ENGINEERING INC., Miami, Fla.	E	46.2	0.0	7	0	0	0	5	0	88	0	0
304	339	RMA GROUP, Rancho Cucamonga, Calif.	GE	46.2	0.0	12	0	5	6	0	0	77	0	0
305	310	PROFESSIONAL ENGINEERING CONSULTANTS PA, Wichita, Kan.	E	45.7	0.0	35	12	7	10	6	6	24	0	0
306	284	BALLINGER, Philadelphia, Pa.	AE	45.5	0.0	100	0	0	0	0	0	0	0	0
307	325	SME, Plymouth, Mich.	EA	45.4	0.2	20	13	11	5	6	6	19	17	3
308	389	LANDRUM & BROWN INC., Cincinnati, Ohio†	EAP	44.9	18.6	6	0	0	0	0	0	94	0	0
309	279	FUSS & O'NEILL INC., Manchester, Conn.†	E	44.6	2.5	43	4	2	6	1	8	9	0	0
310	327	MSA PROFESSIONAL SERVICES INC., Baraboo, Wis.	EA	44.5	0.0	2	0	0	11	24	0	38	5	0
311	**	PRIMORIS SERVICES CORP., Dallas, Texas†	EC	44.4	8.3	0	0	0	0	0	100	0	0	0
312	275	HGA, Ruston, La.	E	44.4	0.0	0	0	1	0	0	69	0	0	0
313	246	KENDALL/HEATON ASSOCIATES INC., Houston, Texas	A	44.0	0.0	100	0	0	0	0	0	0	0	0
314	307	THE MANNIK & SMITH GROUP INC., Maumee, Ohio	E	44.0	0.0	18	19	4	10	16	7	17	5	3
315	311	WD PARTNERS, Dublin, Ohio†	AE	44.0	4.9	100	0	0	0	0	0	0	0	0
316	300	COLLINS ENGINEERS INC., Chicago, Ill.	E	43.7	0.4	12	1	0	0	0	1	85	0	0
317	231	WALDEMAR S. NELSON AND CO. INC., New Orleans, La.	EA	43.7	8.5	1	0	1	0	10	68	1	1	0
318	301	PS&S, Warren, N.J.	EA	43.5	0.0	47	0	17	1	9	27	0	0	0
319	334	COMMONWEALTH ASSOCIATES INC., Jackson, Mich.	E	43.4	0.0	0	0	97	0	0	0	0	0	0
320	319	BURNS ENGINEERING INC., Philadelphia, Pa.	E	43.2	0.0	8	0	7	0	6	0	79	0	0
321	314	AYRES ASSOCIATES INC., Eau Claire, Wis.	EA	43.0	0.0	10	0	0	8	7	0	44	1	1
322	424	MITHUN, Seattle, Wash.	A	43.0	0.0	100	0	0	0	0	0	0	0	0
323	312	AMERICAN ENGINEERING TESTING, Saint Paul, Minn.	E	42.7	0.0	18	3	9	3	7	21	39	1	0
324	349	ISG, Mankato, Minn.†	EA	42.6	0.0	29	17	2	0	10	21	6	0	0
325	316	CORE STATES GROUP, Duluth, Ga.	EA	42.2	0.8	72	10	6	0	0	12	0	0	0
326	358	KISINGER CAMPO & ASSOC CORP., Tampa, Fla.†	E	42.2	0.0	0	0	0	0	0	0	99	0	0
327	344	ORBITAL ENGINEERING INC., Pittsburgh, Pa.	E	42.0	0.0	0	0	43	0	0	57	0	0	0
328	342	D'AMATO CONVERSANO INC., DBA DCI ENGINEERS INC., Seattle, Wash.	E	41.8	0.1	66	5	0	1	0	0	1	0	0
329	328	TOLUNAY-WONG ENGINEERS INC., Houston, Texas	GE	41.7	0.5	9	1	2	1	3	60	6	1	1
330	313	M+W GROUP, Albany, N.Y.†	EC	41.7	4.2	0	91	9	0	0	0	0	0	0
331	**	TREANORHL, Lawrence, Kan.	A	41.6	0.0	100	0	0	0	0	0	0	0	0
332	286	BWBR, Saint Paul, Minn.	A	41.5	0.0	90	5	0	0	0	0	0	0	0
333	294	SPEC SERVICES INC., Fountain Valley, Calif.	E	41.4	0.0	0	0	0	0	0	92	7	0	0
334	320	SHALOM BARANES ASSOCIATES PC, Washington, D.C.	A	41.3	0.0	100	0	0	0	0	0	0	0	0
335	375	HILLIS-CARNES ENGINEERING ASSOCIATES INC., Annapolis Junction, Md.	E	41.3	0.0	100	0	0	0	0	0	0	0	0
336	440	STEINBERG HART, San Jose, Calif.†	A	41.2	1.5	97	0	0	0	0	0	0	0	0
337	368	DAVIS PARTNERSHIP ARCHITECTS, Denver, Colo.	A	41.1	0.0	90	10	0	0	0	0	0	0	0
338	**	HLW INTERNATIONAL, New York, N.Y.	A	41.0	6.0	100	0	0	0	0	0	0	0	0
339	374	GP STRATEGIES CORP., Columbia, Md.	E	40.9	20.6	0	0	0	0	0	100	0	0	0
340	353	AYERS SAINT GROSS, Baltimore, Md.	A	40.8	2.1	100	0	0	0	0	0	0	0	0
341	335	ON-BOARD ENGINEERING, East Windsor, N.J.†	E	40.8	6.6	7	14	4	0	0	71	3	0	0
342	304	MAZZETTI INC., San Francisco, Calif.	E	40.7	0.3	95	0	0	0	0	0	5	0	0
343	347	MORRISON MAIERLE INC., Helena, Mont.	E	40.4	0.0	27	0	0	1	22	1	33	0	0
344	336	THE S/L/A/M COLLABORATIVE INC., Glastonbury, Conn.†	AE	40.3	0.0	100	0	0	0	0	0	0	0	0
345	322	THE BECK GROUP, Dallas, Texas	A	40.3	2.3	100	0	0	0	0	0	0	0	0
346	324	LARSON DESIGN GROUP INC., Williamsport, Pa.	EA	40.2	0.0	23	0	0	2	5	16	37	0	0
347	363	MCLAREN ENGINEERING GROUP, West Nyack, N.Y.†	E	40.1	2.8	58	0	4	0	1	0	37	0	0
348	371	BAXTER & WOODMAN INC., Crystal Lake, Ill.†	E	40.0	0.0	0	0	0	25	27	0	28	0	0
349	369	GEOCON, San Diego, Calif.	GE	39.9	0.0	70	3	1	4	3	3	15	0	2
350	441	DRAPER ADEN ASSOCIATES INC., Richmond, Va.	E	39.6	0.0	42	0	0	0	16	0	0	0	0

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				TOTAL	INT'L									
351	338	<b>FXCOLLABORATIVE</b> , New York, N.Y.	A	39.4	0.3	97	0	0	0	0	0	3	0	0
352	291	<b>FRCH DESIGN WORLDWIDE</b> , Cincinnati, Ohio	A	39.3	1.3	100	0	0	0	0	0	0	0	0
353	435	<b>INFRASTRUCTURE CONSULTING &amp; ENGINEERING PLLC</b> , Columbia, S.C.	E	39.2	0.0	0	0	0	0	0	0	100	0	0
354	351	<b>ATCS PLC</b> , Herndon, Va.	E	39.0	0.0	0	0	0	2	2	0	72	0	0
355	337	<b>NOVA ENGINEERING &amp; ENVIRONMENTAL LLC</b> , Kennesaw, Ga.	E	38.8	0.0	59	0	2	0	0	0	23	9	0
356	359	<b>I.C. THOMASSON ASSOCIATES INC.</b> , Nashville, Tenn.	E	38.8	0.4	77	3	10	2	0	4	3	0	0
357	352	<b>JORDAN &amp; SKALA ENGINEERS</b> , Norcross, Ga.	E	38.5	0.0	90	10	0	0	0	0	0	0	0
358	346	<b>BARTON &amp; LOGUIDICE DPC</b> , Liverpool, N.Y.	E	38.2	0.0	2	1	2	14	42	0	26	2	0
359	293	<b>FENTRESS ARCHITECTS</b> , Denver, Colo.	A	38.2	0.0	35	0	0	0	0	0	65	0	0
360	367	<b>DGA INC.</b> , Mountain View, Calif.	A	38.1	0.0	94	0	0	0	0	0	0	0	6
361	348	<b>KIRKSEY ARCHITECTURE</b> , Houston, Texas	A	38.0	0.0	100	0	0	0	0	0	0	0	0
362	332	<b>BOSWELL ENGINEERING INC.</b> , South Hackensack, N.J.	E	37.9	0.0	2	0	19	3	5	0	71	0	0
363	388	<b>MANHARD CONSULTING</b> , Vernon Hills, Ill.	E	37.8	0.0	92	0	0	2	1	2	3	0	0
364	350	<b>LIONAKIS</b> , Sacramento, Calif.	AE	37.8	0.0	100	0	0	0	0	0	0	0	0
365	452	<b>INTEGRUS ARCHITECTURE</b> , Spokane, Wash.	EA	37.8	0.1	100	0	0	0	0	0	0	0	0
366	331	<b>CPH INC.</b> , Sanford, Fla.	EC	37.6	1.1	29	0	0	19	20	0	10	0	0
367	365	<b>MUESER RUTLEDGE CONSULTING ENGINEERS</b> , New York, N.Y.	E	37.3	0.5	41	3	3	7	8	6	32	0	0
368	**	<b>WESTWOOD PROFESSIONAL SERVICES</b> , Minnetonka, Minn.	E	37.2	0.0	35	0	58	0	0	1	0	0	7
369	394	<b>WALLACE MONTGOMERY &amp; ASSOCIATES LLP</b> , Hunt Valley, Md.	E	37.1	0.0	0	0	0	11	1	0	87	0	0
370	422	<b>P2S INC.</b> , Long Beach, Calif.	E	36.5	0.0	45	9	36	0	0	2	2	0	6
371	372	<b>RPS GROUP INC.</b> , Houston, Texas	E	36.5	0.0	0	0	0	25	10	0	65	0	0
372	402	<b>MARTIN/MARTIN INC.</b> , Lakewood, Colo.†	E	36.4	0.3	77	13	0	2	3	0	3	0	1
373	364	<b>ERDMAN ANTHONY</b> , Rochester, N.Y.	E	36.1	0.0	17	0	0	8	0	0	75	0	0
374	397	<b>LEIGHTON GROUP INC.</b> , Irvine, Calif.†	GE	36.0	0.0	56	0	8	8	0	8	19	0	0
375	385	<b>AI ENGINEERS INC.</b> , Middletown, Conn.	E	35.9	0.0	19	0	7	7	6	0	61	0	0
376	330	<b>URBAN ENGINEERS INC.</b> , Philadelphia, Pa.†	E	35.8	0.0	1	0	0	0	0	3	89	7	0
377	463	<b>REBEL DESIGN+GROUP</b> , Marina Del Rey, Calif.	A	35.7	19.8	100	0	0	0	0	0	0	0	0
378	399	<b>WRIGHT-PIERCE</b> , Topsham, Maine	E	35.7	0.3	0	0	0	27	71	1	2	0	0
379	360	<b>LHB</b> , Duluth, Minn.†	EA	35.5	0.0	59	5	0	0	0	22	14	0	0
380	400	<b>BHDP ARCHITECTURE</b> , Cincinnati, Ohio	A	35.5	1.6	97	0	0	0	0	3	0	0	0
381	416	<b>LORD AECK SARGENT</b> , Atlanta, Ga.	A	35.4	0.0	100	0	0	0	0	0	0	0	0
382	378	<b>RATIO ARCHITECTS INC.</b> , Indianapolis, Ind.	A	35.4	5.0	99	0	0	0	0	0	1	0	0
383	403	<b>WIGHT &amp; CO.</b> , Darien, Ill.	AE	35.3	0.1	74	0	0	0	0	0	21	1	3
384	398	<b>PCI SKANSKA</b> , Evansville, Ind.	EA	35.3	0.0	6	3	35	0	0	54	2	0	0
385	**	<b>ARRAY ARCHITECTS</b> , Conshohocken, Pa.	A	35.2	0.0	100	0	0	0	0	0	0	0	0
386	392	<b>HUBBELL, ROTH &amp; CLARK INC.</b> , Bloomfield Hills, Mich.	EA	35.0	0.0	11	3	0	11	27	1	48	0	0
387	362	<b>WENCK</b> , Golden Valley, Minn.	ENV	35.0	1.0	14	6	6	26	17	20	9	3	0
388	318	<b>C&amp;I ENGINEERING</b> , Louisville, Ky.	E	34.9	0.0	0	0	0	0	0	100	0	0	0
389	382	<b>T. BAKER SMITH LLC</b> , Houma, La.	E	34.6	0.0	4	4	10	4	5	20	7	0	45
390	**	<b>WILEY I WILSON</b> , Lynchburg, Va.	AE	34.6	0.0	65	6	12	4	7	6	0	0	0
391	406	<b>WENDEL</b> , Williamsville, N.Y.†	AE	34.5	0.0	44	0	0	12	4	0	1	0	1
392	455	<b>ADRIAN SMITH + GORDON GILL ARCHITECTURE</b> , Chicago, Ill.	A	34.5	29.1	100	0	0	0	0	0	0	0	0
393	379	<b>QUINN EVANS ARCHITECTS</b> , Washington, D.C.	A	34.4	0.0	100	0	0	0	0	0	0	0	0
394	**	<b>WRNS STUDIO</b> , San Francisco, Calif.	A	34.0	0.0	100	0	0	0	0	0	0	0	0
395	415	<b>RJN GROUP INC.</b> , Wheaton, Ill.	E	33.7	0.0	0	0	0	3	97	0	0	0	0
396	**	<b>ARDURRA - KING</b> , Tampa, Fla.†	E	33.7	0.0	45	0	0	13	42	0	0	0	0
397	447	<b>WHPACIFIC INC.</b> , Portland, Ore.	EA	33.5	0.0	29	0	0	7	0	0	43	0	0
398	390	<b>SHAFER, KLINE &amp; WARREN</b> , Lenexa, Kan.†	E	33.3	0.0	22	0	2	6	7	50	9	0	0
399	384	<b>LAWRENCE GROUP</b> , St. Louis, Mo.†	A	33.1	0.0	100	0	0	0	0	0	0	0	0
400	380	<b>V3 COS. LTD.</b> , Woodridge, Ill.†	E	33.1	3.0	41	0	8	5	0	0	45	0	0

RANK 2018	RANK 2017	FIRM	FIRM TYPE	2017 REVENUE \$ MIL.		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL	INT'L									
401	**	LOCHMUELLER GROUP INC., Evansville, Ind.†	E	32.6	0.0	0	0	0	2	13	0	68	0	0
402	450	MACKAY & SOMPS CIVIL ENGINEERS INC., Pleasanton, Calif.	E	32.4	0.0	0	0	0	0	0	0	0	0	0
403	427	PBS ENGINEERING AND ENVIRONMENTAL, Portland, Ore.	E	32.4	0.0	49	6	3	2	6	6	12	15	0
404	462	SEPI ENGINEERING AND CONSTRUCTION INC., Raleigh, N.C.	EC	32.4	0.0	0	0	0	3	0	0	97	0	0
405	386	GRAEF, Milwaukee, Wis.	EA	32.4	0.0	38	10	4	10	15	2	21	0	0
406	391	GEOTECHNOLOGY INC., St. Louis, Mo.	GE	32.0	0.0	43	7	2	8	6	1	27	3	0
407	393	ROBERT DERECTOR ASSOCIATES, New York, N.Y.	E	32.0	0.0	75	0	0	0	0	0	0	0	25
408	434	HERBERT, ROWLAND & GRUBIC INC., Harrisburg, Pa.	E	32.0	0.0	13	10	0	20	31	2	23	0	0
409	409	JCJ ARCHITECTURE, Hartford, Conn.	A	32.0	0.0	100	0	0	0	0	0	0	0	0
410	376	STEELMAN PARTNERS, Las Vegas, Nev.†	A	31.7	6.6	100	0	0	0	0	0	0	0	0
411	464	SUNRISE ENGINEERING INC., Fillmore, Utah†	E	31.7	0.0	16	0	16	29	0	22	6	0	0
412	387	DES ARCHITECTS + ENGINEERS, Redwood City, Calif.	AE	31.5	0.0	100	0	0	0	0	0	0	0	0
413	341	GBBN, Cincinnati, Ohio	A	31.4	2.3	100	0	0	0	0	0	0	0	0
414	**	VLK ARCHITECTS, Fort Worth, Texas	A	31.4	0.0	100	0	0	0	0	0	0	0	0
415	**	HOUSTON ENGINEERING INC., Fargo, N.D.	E	31.2	0.0	16	0	0	13	1	0	12	0	0
416	**	STAHL SHEAFFER ENGINEERING LLC, State College, Pa.	E	31.1	0.0	5	2	1	0	0	20	71	0	0
417	425	ADVANTAGE ENGINEERS, Columbia, Md.†	E	31.0	0.0	9	0	0	0	0	0	0	0	90
418	457	PRIMERA ENGINEERS LTD., Chicago, Ill.	E	30.8	0.0	22	0	50	0	0	0	29	0	0
419	381	GFF, Dallas, Texas	A	30.6	0.0	96	0	0	0	0	0	0	0	0
420	429	KAPUR & ASSOCIATES, Milwaukee, Wis.	E	30.5	0.0	9	0	6	2	4	9	65	1	3
421	383	GUERNSEY, Oklahoma City, Okla.	EA	30.3	0.0	35	0	47	6	1	1	6	3	0
422	377	MBH ARCHITECTS, Alameda, Calif.†	A	30.3	3.0	100	0	0	0	0	0	0	0	0
423	405	GBA, Lenexa, Kan.†	EA	30.3	0.0	6	0	0	0	18	24	41	6	5
424	430	WDG ARCHITECTURE PLLC, Washington, D.C.	A	30.3	0.0	100	0	0	0	0	0	0	0	0
425	408	RDG PLANNING & DESIGN, Des Moines, Iowa†	A	30.3	0.0	87	0	0	0	0	0	0	0	0
426	404	GRIMM + PARKER ARCHITECTS, Calverton, Md.	A	30.2	0.0	100	0	0	0	0	0	0	0	0
427	420	WHITNEY BAILEY COX & MAGNANI LLC, Baltimore, Md.	EA	30.2	0.0	28	0	0	1	1	6	65	0	0
428	436	THE LIRO GROUP, Syosset, N.Y.†	EA	30.2	0.0	38	0	0	0	5	0	25	15	5
429	396	BEAM LONGEST & NEFF LLC, Indianapolis, Ind.	E	30.0	0.0	0	0	0	2	2	0	97	0	0
430	444	BOULDER ASSOCIATES ARCHITECTS, Boulder, Colo.	A	29.7	0.0	100	0	0	0	0	0	0	0	0
431	421	HEAPY ENGINEERING, Dayton, Ohio†	E	29.7	0.0	98	0	0	0	0	0	0	0	2
432	414	DEGENKOLB ENGINEERS, San Francisco, Calif.	E	29.6	0.0	100	0	0	0	0	0	0	0	0
433	426	BUCHART HORN INC., York, Pa.†	EA	29.6	4.1	26	0	0	8	25	0	33	3	1
434	**	BROWN REYNOLDS WATFORD ARCHITECTS INC., Dallas, Texas	A	29.6	0.0	100	0	0	0	0	0	0	0	0
435	407	ENGLAND-THIMS & MILLER INC., Jacksonville, Fla.†	E	29.5	0.0	53	0	0	0	0	0	4	44	0
436	454	CTL I THOMPSON INC., Centennial, Colo.†	E	29.5	0.2	93	0	0	1	3	0	3	0	0
437	433	CUHACI & PETERSON, Orlando, Fla.	AE	29.5	0.0	100	0	0	0	0	0	0	0	0
438	472	CARRIER JOHNSON + CULTURE, San Diego, Calif.	A	29.3	0.0	100	0	0	0	0	0	0	0	0
439	485	LAMP RYNEARSON & ASSOCIATES, Omaha, Neb.	E	29.2	0.0	14	0	2	10	10	3	14	0	0
440	413	GRW ENGINEERS INC., Lexington, Ky.†	EA	29.2	0.0	6	0	0	23	43	0	28	0	0
441	**	MILLER ENGINEERS INC. DBA SOUDER, MILLER & ASSOCIATES, Santa Fe, N.M.	E	28.9	0.0	9	0	5	27	26	5	18	5	5
442	474	LOONEY RICKS KISS, Memphis, Tenn.	A	28.5	0.1	100	0	0	0	0	0	0	0	0
443	453	KRAZAN & ASSOCIATES, Clovis, Calif.	E	28.3	0.0	58	4	5	5	1	6	11	7	3
444	357	CO ARCHITECTS, Los Angeles, Calif.	A	28.3	0.0	100	0	0	0	0	0	0	0	0
445	449	DESIGN COLLECTIVE INC., Baltimore, Md.	A	28.2	0.0	100	0	0	0	0	0	0	0	0
446	418	CTL ENGINEERING INC., Columbus, Ohio†	EA	28.1	0.0	45	4	1	6	6	3	26	2	7
447	**	WK DICKSON & CO. INC., Charlotte, N.C.	E	28.1	0.0	5	0	9	20	27	0	34	0	0
448	**	DUNAWAY ASSOCIATES LP, Fort Worth, Texas	E	28.1	0.0	79	0	0	0	3	4	14	0	0
449	412	MG ENGINEERING DPC, New York, N.Y.	E	28.1	0.0	100	0	0	0	0	0	0	0	0
450	432	MOORE ENGINEERING INC., West Fargo, N.D.	E	28.1	0.0	0	0	0	26	64	0	10	0	0



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SHAFFER, KLINE & WARREN was  
acquired April 6 by Clive, Iowa-based  
infrastructure engineering firm  
McClure Engineering Co.

RANK 2018	RANK 2017	FIRM	FIRM TYPE	2017 REVENUE \$ MIL.		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL	INT'L									
451	451	<b>THE GATEWAY ENGINEERS INC.</b> , Pittsburgh, Pa.	E	28.1	0.0	33	0	0	3	25	28	8	0	3
452	354	<b>BINKLEY &amp; BARFIELD INC.</b> , Houston, Texas†	E	28.0	0.0	4	0	0	0	13	0	37	0	38
453	**	<b>KS ENGINEERS PC</b> , Newark, N.J.	E	28.0	0.0	4	0	0	7	7	0	82	0	0
454	460	<b>VOCON</b> , Cleveland, Ohio	A	28.0	0.0	100	0	0	0	0	0	0	0	0
455	469	<b>THE MILLER HULL PARTNERSHIP LLP</b> , Seattle, Wash.	A	28.0	0.0	69	0	0	0	1	0	7	0	0
456	471	<b>DAVIS BRODY BOND</b> , New York, N.Y.	A	28.0	0.0	100	0	0	0	0	0	0	0	0
457	443	<b>BOHANNAN HUSTON INC.</b> , Albuquerque, N.M.	E	27.9	0.0	17	0	1	18	11	2	17	0	0
458	437	<b>FFKR ARCHITECTS</b> , Salt Lake City, Utah†	A	27.9	0.0	100	0	0	0	0	0	0	0	0
459	**	<b>CALYX ENGINEERS AND CONSULTANTS</b> , Cary, N.C.	E	27.8	0.0	17	0	0	0	0	0	83	0	0
460	442	<b>SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS</b> , Campbell, Calif.†	EA	27.7	0.0	33	0	0	0	4	0	0	0	0
461	496	<b>INFRASTRUCTURE ENGINEERS INC.</b> , St. Cloud, Fla.	E	27.6	0.0	0	0	0	0	0	0	100	0	0
462	461	<b>BETA GROUP INC.</b> , Lincoln, R.I.	E	27.6	0.0	0	0	0	18	35	0	47	0	0
463	410	<b>DEKKER/PERICH/SABATINI</b> , Albuquerque, N.M.	AE	27.4	0.0	100	0	0	0	0	0	0	0	0
464	470	<b>GOETTSCH PARTNERS</b> , Chicago, Ill.	A	27.2	14.4	100	0	0	0	0	0	0	0	0
465	**	<b>ALLIANCE</b> , Minneapolis, Minn.	A	27.2	0.8	41	0	0	0	0	0	59	0	0
466	419	<b>EBA ENGINEERING INC.</b> , Laurel, Md.	E	27.0	0.0	12	0	0	13	13	0	51	2	0
467	445	<b>BRIDGEFARMER &amp; ASSOCIATES INC.</b> , Dallas, Texas	E	27.0	0.0	0	0	0	0	0	0	100	0	0
468	467	<b>HULL &amp; ASSOCIATES INC.</b> , Dublin, Ohio	E	27.0	0.0	4	4	1	6	8	21	10	41	4
469	493	<b>LORING CONSULTING ENGINEERS INC.</b> , New York, N.Y.	E	27.0	0.4	98	0	0	0	0	0	0	0	2
470	468	<b>MCPMAHON ASSOCIATES INC.</b> , Neenah, Wis.†	EA	27.0	0.0	19	3	3	6	45	9	13	0	1
471	298	<b>MODJESKI AND MASTERS INC.</b> , Mechanicsburg, Pa.†	E	27.0	0.5	0	0	0	0	0	0	100	0	0
472	431	<b>VCBO ARCHITECTURE</b> , Salt Lake City, Utah†	A	27.0	0.0	100	0	0	0	0	0	0	0	0
473	479	<b>CESO INC</b> , Miamisburg, Ohio	EA	26.8	0.2	100	0	0	0	0	0	0	0	0
474	448	<b>JONES EDMUNDS &amp; ASSOCIATES INC.</b> , Gainesville, Fla.†	E	26.6	0.0	3	0	0	20	40	0	29	0	0
475	439	<b>OPN ARCHITECTS</b> , Cedar Rapids, Iowa	A	26.5	0.0	100	0	0	0	0	0	0	0	0
476	478	<b>UNITED CONSULTING</b> , Indianapolis, Ind.	E	26.2	0.0	0	0	0	5	8	0	87	0	0
477	492	<b>BERMELLO AJAMIL &amp; PARTNERS INC.</b> , Miami, Fla.	AE	26.1	3.1	20	0	0	0	1	0	79	0	0
478	423	<b>HIGHLAND ASSOCIATES LTD.</b> , Clarks Summit, Pa.†	AE	26.1	0.3	57	2	0	0	0	0	0	0	41
479	**	<b>MURRAYSMITH INC.</b> , Portland, Ore.	E	26.0	0.0	0	0	0	42	27	0	31	0	0
480	**	<b>HBG DESIGN</b> , Memphis, Tenn.	A	25.7	0.0	100	0	0	0	0	0	0	0	0
481	**	<b>SAULSBURY INDUSTRIES INC.</b> , Odessa, Texas†	EC	25.6	0.0	0	0	0	0	0	97	0	0	0
482	**	<b>ESG ARCHITECTURE &amp; DESIGN</b> , Minneapolis, Minn.	A	25.6	0.0	100	0	0	0	0	0	0	0	0
483	**	<b>DATTNER ARCHITECTS</b> , New York, N.Y.	A	25.5	0.0	95	0	0	0	0	0	5	0	0
484	482	<b>SHELADIA ASSOCIATES INC.</b> , Rockville, Md.	EA	25.4	17.9	13	0	0	15	0	0	72	0	0
485	**	<b>DOKKEN ENGINEERING</b> , Folsom, Calif.	E	25.3	0.0	0	0	0	0	0	0	100	0	0
486	459	<b>CRAFTON TULL</b> , Rogers, Ark.	EA	25.3	0.0	47	0	0	2	4	25	20	0	0
487	**	<b>CBRE GROUP INC.</b> , Los Angeles, Calif.†	AE	25.1	0.0	86	0	0	0	0	0	13	0	0
488	486	<b>BOARMAN KROOS VOGEL GROUP INC.</b> , Minneapolis, Minn.	AE	25.1	0.0	100	0	0	0	0	0	0	0	0
489	498	<b>EARTH SYSTEMS INC.</b> , San Luis Obispo, Calif.†	GE	25.1	0.0	77	2	2	2	2	2	9	1	1
490	401	<b>BALA CONSULTING ENGINEERS INC.</b> , King of Prussia, Pa.	E	25.0	0.0	93	0	0	0	0	0	7	0	0
491	477	<b>LEACH WALLACE ASSOCIATES INC.</b> , Elkridge, Md.	E	25.0	0.0	100	0	0	0	0	0	0	0	0
492	**	<b>HASTINGS ARCHITECTURE ASSOCIATES LLC</b> , Nashville, Tenn.	A	24.9	0.0	100	0	0	0	0	0	0	0	0
493	**	<b>ZYSCOVICH ARCHITECTS</b> , Miami, Fla.	A	24.8	0.7	95	0	0	0	0	0	5	0	0
494	487	<b>DAHLIN GROUP ARCHITECTURE PLANNING</b> , Pleasanton, Calif.	A	24.7	1.4	100	0	0	0	0	0	0	0	0
495	480	<b>CHIPMAN DESIGN ARCHITECTURE</b> , Des Plaines, Ill.	A	24.6	0.0	100	0	0	0	0	0	0	0	0
496	**	<b>BORTON-LAWSON</b> , Wilkes-Barre, Pa.	EA	24.5	0.0	17	0	21	0	2	31	29	0	0
497	488	<b>STG DESIGN</b> , Austin, Texas	A	24.5	0.0	100	0	0	0	0	0	0	0	0
498	**	<b>ARM GROUP INC.</b> , Hershey, Pa.†	E	24.3	0.0	27	1	1	6	47	16	1	0	1
499	446	<b>SAI CONSULTING ENGINEERS INC.</b> , Pittsburgh, Pa.	E	24.3	0.0	0	0	0	0	0	0	100	0	0
500	473	<b>EPSTEIN</b> , Chicago, Ill.†	AEC	24.3	4.6	36	57	0	0	0	0	7	0	0

# Where To Find the Top 500

FIRM	RANK	FIRM	RANK	FIRM	RANK	FIRM	RANK
<b>A</b>		Burrow Global LLC	131	<b>E</b>		Grimm + Parker Architects	426
Advantage Engineers	417	BWBR	332	EA Engineering, Science, and Technology Inc. PBC	138	GRW Engineers Inc.	440
AECOM	2	<b>C</b>		Earth Systems Inc.	489	Guernsey	421
Aegion Corp.	5	C&I Engineering	388	EBA Engineering Inc.	466	Gulf Interstate Engineering Co.	51
Affiliated Engineers Inc.	126	C&S Cos.	149	Ecology and Environment Inc.	141	GZA	127
AI Engineers Inc.	375	CALYX Engineers and Consultants	459	ECS	75	<b>H</b>	
AKF Group LLC	218	CannonDesign	79	EFI Global Inc.	156	H2M architects + engineers	208
AKRF Inc.	191	Cardno Inc.	47	Electrical Consultants Inc.	192	HAKS	134
Alliance	465	Carollo Engineers	59	Elkus Manfredi Architects	172	Haley & Aldrich Inc.	103
Alpha Testing Inc.	290	Carrier Johnson + CULTURE	438	EMH&T	261	Half Associates Inc.	128
American Engineering Testing	323	CB&I	22	EN Engineering LLC	82	Hanson Professional Services Inc.	184
American Structurepoint	176	CBRE Group Inc.	487	Encon Services Inc.	67	Hardesty & Hanover LLC	180
Anvil Corp.	193	CDI Corporation	62	England-Thims & Miller Inc.	435	Hargrove Engineers + Constructors	70
Arcadis North America/CallisonRTKL	133	CDM Smith	23	Ennead Architects	242	Harley Ellis Devereaux	185
Architects Orange	222	Century Engineering Inc.	262	EnSafe Inc.	253	Hart Howerton	302
Ardurra - King	396	CESO Inc.	473	Eppstein Uhen Architects Inc.	279	Hastings Architecture Associates LLC	492
ARM Group Inc.	498	CHA Consulting Inc.	54	Epstein	500	Hazen and Sawyer	66
Arquitectonica	258	Chipman Design Architecture	495	Erdman Anthony	373	HBG Design	480
Array Architects	385	Civil & Environmental Consultants Inc.	115	ESD	231	HBK Engineering LLC	236
Arup	43	Clark Nexsen Inc.	169	ESG Architecture & Design	482	HDR	6
ATCS PLC	354	CPL	282	ESP Associates PA	270	Heapy Engineering	431
Ayers Saint Gross	340	CO Architects	444	David Evans Enterprises Inc.	99	Henderson Engineers	142
Ayres Associates Inc.	321	Cobb, Fendley & Associates Inc.	247	EwingCole	194	Herbert, Rowland & Grubic Inc.	408
<b>B</b>		Coffman Engineers Inc.	212	EXP	32	HGA	312
Michael Baker International	30	Collins Engineers Inc.	316	EYP	114	HGA	93
T. Baker Smith LLC	389	Commonwealth Associates Inc.	319	<b>F</b>		Highland Associates Ltd.	478
Bala Consulting Engineers Inc.	490	Cooper Carry	237	Farnsworth Group	200	Hillis-Carnes Engineering Associates Inc.	335
Ballinger	306	Core States Group	325	Fehr & Peers	266	HKS	40
Barge Design Solutions Inc.	182	Corgan	77	fentress architects	359	HLW International	338
Barr Engineering Co.	104	COWI North America Inc.	214	FFKR Architects	458	HMC Architects	168
Bartlett & West Inc.	272	CP&Y Inc.	219	Fishbeck, Thompson, Carr & Huber	217	HNTB Cos.	16
Barton & Loguidice DPC	358	CPH Inc.	366	Flad Architects	150	HOK	36
Baxter & Woodman Inc.	348	Crafton Tull	486	Fluor Corp.	3	Hord Coplan Macht Inc.	195
BCC Engineering Inc.	303	Crawford, Murphy & Tilly Inc.	285	Foth Cos.	118	Horrocks Engineers	292
Beam Longest & Neff LLC	429	CRB	101	FRCH Design Worldwide	352	Houston Engineering Inc.	415
Bechtel	17	CTA Architects Engineers	232	Freese and Nichols Inc.	121	Hubbell, Roth & Cark Inc.	386
The Beck Group	345	CTL Engineering Inc.	446	Fugro	50	Huckabee	221
Alfred Benesch & Co.	129	CTL I Thompson Inc.	436	Fuss & O'Neill Inc.	309	Huit-Zollars Inc.	144
Louis Berger	21	Cuhaci & Peterson	437	FXCollaborative	351	Hull & Associates Inc.	468
Bergmann	224	Cunningham Group Architecture Inc.	145	<b>G</b>		Humphreys & Partners Architects LP	196
Bermello Ajamil & Partners Inc.	477	<b>D</b>		GAI Consultants Inc.	116	<b>I</b>	
Beta Group Inc.	462	D&B Engineers and Architects PC	246	Gannett Fleming	39	IBI Group	46
Beyer Blinder Belle, Architects and Planners LLP	235	Dahlin Group Architecture Planning	494	Garver	146	IMEG Corp.	111
BGE Inc. (Brown & Gay Engineers Inc.)	136	Leo A Daly	91	The Gateway Engineers Inc.	451	Infrastructure Consulting & Engineering PLLC	353
BHDP Architecture	380	Dannenbaum Engineering Corp.	301	GBA	423	Infrastructure Engineers Inc.	461
Binkley & Barfield Inc.	452	Dattner Architects	483	GBBN	413	Integral Group	263
BKF Engineers	154	Davis Brody Bond	456	GEI Consultants Inc.	92	Integrus Architecture	365
BL Cos. Inc.	286	Davis Partnership Architects	337	Gensler	15	Interface Engineering Inc.	299
Black & Veatch	10	Day & Zimmermann	157	Geocon	349	Intertek-PSI	14
Boarman Kroos Vogel Group Inc.	488	D'Amato Conversano Inc., dba DCI Engineers Inc.	328	GeoEngineers Inc.	226	IPS-Integrated Project Services LLC	124
Bohannon Huston Inc.	457	Degenkolb Engineers	432	Geo-Logic Associates Inc.	264	ISG	324
Bolton & Menk Inc.	160	Dekker/Perich/Sabatini	463	Geosyntec Consultants Inc.	53	<b>J</b>	
Borton-Lawson	496	Dennis Group	248	Geotechnology Inc.	406	Jacobs	1
Boswell Engineering Inc.	362	Robert Derector Associates	407	GFF	419	Jaros, Baum & Bolles	216
Boulder Associates Architects	430	DES Architects + Engineers	412	Ghafari Associates LLC	108	JCJ Architecture	409
Bowman Consulting Group	179	Design Collective Inc.	445	GHD Inc.	25	Jensen Hughes	85
BR+A Consulting Engineers LLC	201	DeSimone Consulting Engineers	298	Goettsch Partners	464	Johnson, Mirmiran & Thompson Inc.	57
Braun Intertec	120	Dewberry	42	Golder Associates Corp.	18	Jones Edmunds & Associates Inc.	474
Bridgefarmer & Associates Inc.	467	DGA Inc.	360	Goodwyn Mills Cawood	213	Jones Carter	183
Brown and Caldwell	44	WK Dickson & Co. Inc.	447	GP Strategies Corp.	339	Jordan & Skala Engineers	357
Brown Reynolds Watford Architects Inc.	434	DLR Group	72	GPD Group	148	J-U-B Engineers Inc.	296
BRPH	230	DLZ Corp.	125	GRAEF	405	<b>K</b>	
BSA LifeStructures	273	Dokken Engineering	485	Greeley and Hansen	170	Kadmas Lee & Jackson (KLJ)	155
Buchart Horn Inc.	433	DOWL	249	HR Green Inc.	207	Kapur & Associates	420
Bureau Veritas	26	Draper Aden Associates Inc.	350	GreenbergFarrow	223	KBR Inc.	5
Burgess & Niple Inc.	190	DRMP Inc.	269	Gresham, Smith and Partners	83		
The Burke Group Ltd.	167	Dunaway Associates LP	448				
Burns & McDonnell	9						
Burns Engineering Inc.	320						

FIRM	RANK	FIRM	RANK	FIRM	RANK	FIRM	RANK
KCI Technologies Inc.	68	Moseley Architects	245	RMA Group	304	TransCore	81
Kendall/Heaton Associates Inc.	313	Mott MacDonald	33	RMF Engineering Inc.	251	TranSystems	76
Kennedy/Jenks Consultants Inc.	163	ms consultants Inc.	265	Ross & Baruzzini Inc.	278	TRC	19
Kiewit Corp.	34	MSA Professional Services Inc.	310	RPS Group Inc.	371	TreanorHL	331
Kimley-Horn	20	Mueser Rutledge Consulting Engineers	367	RS&H Inc.	65	TVS Design	287
Kirksey Architecture	361	Murraysmith Inc.	479	RSP Architects	187	Twining Inc.	252
Kisinger Campo & Assoc. Corp.	326	<b>N</b>		<b>S</b>		<b>U</b>	
Kittelson & Associates Inc.	275	NAC Architecture	295	S&B Engineers and Constructors Ltd. & Affil.	41	Ulteig Engineers Inc.	225
Kleinfelder	60	NBBJ	88	S&M Inc.	94	United Consulting	476
Kohn Pedersen Fox Associates PC	89	Neel-Schaffer Inc.	198	The S/L/A/M Collaborative Inc.	344	Universal Engineering Sciences Inc.	197
KPFF Consulting Engineers	84	NELSON	86	SAI Consulting Engineers Inc.	499	UniversalPegasus International	100
Krazan & Associates	443	Waldemar S. Nelson and Co. Inc.	317	Salas O'Brien	267	Urban Engineers Inc.	376
KS Engineers PC	453	Ninyo & Moore Geotech and Environ. Sciences Consultants	202	SAM LLC	106	<b>V</b>	
KTGY Architecture + Planning	175	NORR	123	SANDIS Civil Engineers Surveyors Planners	460	V3 Cos. Ltd.	400
<b>L</b>		NOVA Engineering & Environmental LLC	355	Sargent & Lundy LLC	38	Vanderweil Engineers	161
Labella Associates DPC	186	NOV5 Global Inc.	45	Sasaki	254	VCBO Architecture	472
Lamp Rynearson & Associates	439	<b>O</b>		Saulsbury Industries Inc.	481	VHB	69
Landrum & Brown Inc.	308	OBG	112	Schnabel Engineering Inc.	255	VLK Architects	414
Langan	64	OHM Advisors	274	SCS Engineers	90	Vocon	454
Larson Design Group Inc.	346	Olsson Associates	98	SEPI Engineering and Construction Inc.	404	Volkert Inc.	87
Lawrence Group	399	On-Board Engineering	341	Shafer, Kline & Warren	398	<b>W</b>	
Leach Wallace Associates Inc.	491	OPN Architects	475	Shalom Baranes Associates PC	334	Wade Trim	228
Leidos	27	Orbital Engineering Inc.	327	Shannon & Wilson Inc.	239	Walker Consultants	243
Leighton Group Inc.	374	Otak Inc.	268	Sheladia Associates Inc.	484	Wallace Montgomery & Associates LLP	369
LHB	379	<b>P</b>		Shepley Bulfinch	277	Walter P Moore	140
T.Y. Lin International	48	P2S Inc.	370	Shive-Hattery	257	Wantman Group Inc. dba WGI	250
Lionakis	364	Page Southerland Page Inc.	133	Short Elliott Hendrickson	130	Ware Malcomb	159
The LIRo Group	428	Pape-Dawson Engineers Inc.	137	Simpson Gumpertz & Heger	113	WATG	210
Little	178	Parametrix	164	Skidmore, Owings & Merrill LLP	49	WD Partners	315
LJA Engineering Inc.	110	Parkhill, Smith & Cooper Inc.	256	SME	307	WDG Architecture PLLC	424
LMN Architects	297	Parsons	11	Smith Seckman Reid Inc.	215	Wenck	387
Lochmueller Group Inc.	401	Partner Assessment Corp. dba Partner Engineering and Science Inc.	166	Adrian Smith + Gordon Gill Architecture	392	Wendel	391
H.W. Lochner Inc.	135	Patrick Engineering Inc.	220	SmithGroupJJR	63	Weston & Sampson	152
Looney Ricks Kiss	442	PBK	158	SNC-Lavalin Inc.	31	Westwood Professional Services	368
Lord Aeck Sargent	381	PBS Engineering and Environmental	403	Solomon Cordwell Buenz	205	Whitman, Reardon and Associates LLP	107
Loring Consulting Engineers Inc.	469	PCI Skanska	384	Miller Engineers Inc. dba Souder, Miller & Associates	441	Whitney Bailey Cox & Magnani LLC	427
LPA Inc.	153	Pennoni	78	SPEC Services Inc.	333	WHPacific Inc.	397
LS3P	177	Perkins Eastman	71	SRF Consulting Group Inc.	271	Wight & Co.	383
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M+W GROUP	330	PGAL	209	Stahl Sheaffer Engineering LLC	416	Willdan Group Inc.	58
MacKay & Soms Civil Engineers Inc.	402	Pond	119	Stanley Consultants Inc.	80	Wilson & Co. Inc., Engineers & Architects	233
Magnusson Klemencic Associates	280	Populous	97	Stantec Inc.	8	Wilson Associates	293
Manhard Consulting	363	POWER Engineers Inc.	35	Steelman Partners	410	Wiss, Janney, Elstner Associates	109
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Martin/Martin Inc.	372	Primera Engineers Ltd.	418	Robert A.M. Stern Architects	199	Wood Rodgers Inc.	294
Maser Consulting PA	132	Primoris Services Corp.	311	STG Design	497	Woodard & Curran	74
Matrix Technologies Inc.	259	Professional Engineering Consultants PA	305	Strand Associates Inc.	188	Woolpert Inc.	95
Mazzetti Inc.	342	PS&S	318	STUDIOS Architecture	173	WorleyParsons	28
MBH Architects	422	Psomas	143	STV Group Inc.	37	Wright-Pierce	378
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McKim & Creed Inc.	206	Quinn Evans Architects	393	SWCA Environmental Consultants	147	WSB & Associates Inc.	211
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McMahon Associates Inc.	470	Raba Kistner Inc.	234	<b>T</b>		Wunderlich-Malec Engineering	203
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Mead & Hunt Inc.	139	RDG Planning & Design	425	Terracon Consultants Inc.	24	ZGF Architects LLP	96
Merrick & Co.	122	Rebel Design+Group	377	Tetra Tech Inc.	4	Zyscovich Architects	493
Mesa Associates Inc.	165	Remington & Vernick Engineers	281	A. Morton Thomas and Associates Inc.	204		
MG Engineering DPC	449	Rettew Associates Inc.	244	I.C. Thomasson Associates Inc.	356		
MG2	276	RUN Group Inc.	395	Thompson Engineering	291		
Middough Inc.	181	RK&K	73	Thornton Tomasetti Inc.	61		
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Moody Nolan	260			TLC Engineering for Architecture Inc.	227		
Moore Engineering Inc.	450			Tolunay-Wong Engineers Inc.	329		
Morrison Hershfield	117			Tower Engineering Professionals	229		
Morrison Maierle Inc	343			TPG Architecture LLP	300		

**Advantage Engineers**

John McGrath, CEO  
7070 Samuel Morse Drive., Suite 150  
Columbia, Md. 21046  
(443) 367-0003  
[www.advantageengineers.com](http://www.advantageengineers.com)

**AECOM**

Michael S. Burke, Chairman and Chief  
Executive Officer  
1999 Avenue of the Stars  
Los Angeles, Calif. 90067  
(213) 593-8100  
[www.aecom.com](http://www.aecom.com)

**Aegion Corp.**

Charles Gordon, President & Chief  
Executive Officer  
17988 Edison Avenue  
Chesterfield, Mo. 63005  
(636) 530-8000  
<http://www.aegion.com/>

**Affiliated Engineers Inc.**

Jerry Schuett, PE, Chairman of  
Executive Team  
5802 Research Park Blvd  
Madison, Wis. 53719  
(608) 238-2616  
[www.aeieng.com](http://www.aeieng.com)

**AI Engineers Inc.**

Abul Islam, PE, FASCE,  
President/CEO  
919 Middle Street  
Middletown, Conn. 6457  
(860) 635-7740  
[www.aiengineers.com](http://www.aiengineers.com)

**AKF Group LLC**

Dino DeFeo, Partner  
1 Liberty Plaza 165 Broadway, 22nd Fl  
New York, N.Y. 10006  
(212) 354-5656  
[www.akfgroup.com](http://www.akfgroup.com)

**AKRF Inc.**

Andrew Malek, CEO  
440 Park Ave South  
New York, N.Y. 10016  
(646) 388-9550  
[www.akrf.com](http://www.akrf.com)

**Alliance**

Eric Peterson, AIA, LEED AP,  
Principal

400 Clifton Avenue  
Minneapolis, Minn. 55403  
(612) 874-4100  
[www.alliance.us](http://www.alliance.us)

**Alpha Testing Inc.**

Brian A. Powell, PE, President  
2209 Wisconsin Street  
Dallas, Texas 75229  
(972) 620-8911  
[www.alphatesting.com](http://www.alphatesting.com)

**American Engineering Testing**

Dan Larson, PE, CEO  
550 Cleveland Ave N  
Saint Paul, Minn. 55114-7612  
6516599001  
[www.amengtest.com](http://www.amengtest.com)

**American Structurepoint**

Willis R. Conner, President/COO  
7260 Shadeland Station  
Indianapolis, Ind. 46256  
(317) 547-5580  
[www.structurepoint.com](http://www.structurepoint.com)

**Anvil Corp.**

Gordon Lindell, President  
1675 West Bakerview Road  
Bellingham, Wash. 98226  
(360) 671-1450  
[www.anvilcorp.com](http://www.anvilcorp.com)

**Arcadis North**

**America/CallisonRTKL**  
Joachim Ebert, Chief Executive  
Officer/Chief Operating Officer  
630 Plaza Drive, Ste. 100  
Highlands Ranch, Colo. 80129  
(720) 344-3500  
[www.arcadis.com](http://www.arcadis.com)

**Architects Hawaii Ltd.**

Bettina Mehnert, President and CEO  
733 Bishop St. Suite 3100  
Honolulu, Hawaii 96813  
(808) 523-9636  
[www.ahl.design](http://www.ahl.design)

**Architects Orange**

Jack P. Selman, Senior Partner  
144 N Orange St  
Orange, Calif. 92866-1400  
(714) 639-9860  
[www.architectsorange.com](http://www.architectsorange.com)

**ARM Group Inc.**

Bryan M. Wehler, President, CEO  
1129 West Governor Road, PO Box 797  
Hershey, Pa. 17033  
(717) 533-8600  
[www.armgroup.net](http://www.armgroup.net)

**Arquitectonica**

Timothy Reedy, Chief Executive  
Officer  
2900 Oak Avenue  
Miami, Fla. 33133  
(305) 372-1812  
[www.arquitectonica.com](http://www.arquitectonica.com)

**Array Architects**

Carl Davis, CEO  
1 West Elm Street, Suite 400  
Conshohocken, Pa. 19428  
(610) 270-0599  
[array-architects.com](http://array-architects.com)

**Arup**

Andy Howard, Americas Chairman /  
Principal  
77 Water Street  
New York, N.Y. 10005  
(212) 896-3000  
[www.arup.com](http://www.arup.com)

**ATCS PLC**

Young Ho Chang, President  
2553 Dulles View Drive, Suite 300  
Herndon, Va. 20171  
(703) 430-7500  
[www.atcsplc.com](http://www.atcsplc.com)

**Ayers Saint Gross**

Luanne Greene, President  
1040 Hull Street, Suite 100  
Baltimore, Md. 21075  
(410) 347-8500  
[www.asg-architects.com](http://www.asg-architects.com)

**Ayres Associates Inc.**

Thomas Pulse, PE, President  
3433 Oakwood Hills Parkway  
Eau Claire, Wis. 54701  
(715) 834-3161  
[www.AyresAssociates.com](http://www.AyresAssociates.com)

**Michael Baker International**

Brian A. Lutes, Chief Executive Officer  
500 Grant Street  
Pittsburgh, Pa. 15219  
(412) 918-4000

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[www.mbakertnl.com](http://www.mbakertnl.com)

### **T. Baker Smith LLC**

Kenneth Wm Smith, PE,PLS, FACEC,  
CEO  
412 Van Ave  
Houma, La. 70364  
(985) 852-3433  
<https://tbsmith.com/>

### **Bala Consulting Engineers Inc.**

Michael G. Anastasio, President  
443 South Gulph Road  
King of Prussia, Pa. 19406  
(610) 649-8000  
[www.bala.com](http://www.bala.com)

### **Ballinger**

N/A, N/A  
833 Chestnut Street, Suite 1400  
Philadelphia, Pa. 19107  
(215) 446-0900  
[www.ballinger.com](http://www.ballinger.com)

### **Barge Design Solutions Inc.**

Bob Higgins, Chief Executive Officer  
615 3rd Ave South, Suite 700  
Nashville, Tenn. 37210  
(615) 254-1500  
[www.bargedesign.com](http://www.bargedesign.com)

### **Barr Engineering Co.**

John Lee, President/CEO  
4300 MarketPointe Drive, Ste 200  
Minneapolis, Minn. 55435  
(952) 832-2600  
[www.barr.com](http://www.barr.com)

### **Bartlett & West Inc.**

Keith Warta, CEO  
1200 SW Executive Drive  
Topeka, Kan. 66615  
(785) 272-2252  
[www.bartlettwest.com](http://www.bartlettwest.com)

### **Barton & Loguidice DPC**

John F. Brusa, Jr., President & CEO  
443 Electronics Parkway  
Liverpool, N.Y. 13088  
(315) 457-5200  
[www.bartonandloguidice.com](http://www.bartonandloguidice.com)

### **Baxter & Woodman Inc.**

John V. Ambrose, President and CEO  
8678 Ridgefield Road  
Crystal Lake, Ill. 60012

(815) 459-1260

[www.baxterwoodman.com](http://www.baxterwoodman.com)

### **BCC Engineering Inc.**

Jose A. Munoz, President  
6401 SW 87th Avenue, Suite 200  
Miami, Fla. 33173  
(305) 670-2350  
[www.bcceng.com](http://www.bcceng.com)

### **Beam Longest & Neff LLC**

Tom Longest, CEO  
8126 Castleton Rd  
Indianapolis, Ind. 46250  
(317) 849-5832  
[www.b-l-n.com](http://www.b-l-n.com)

### **Bechtel**

B. Bechtel, CEO  
P.O. Box 193965  
San Francisco, Calif. 94119-3965  
(415) 768-1234  
[www.bechtel.com](http://www.bechtel.com)

### **The Beck Group**

Fred Perpall, FAIA, Chief Executive  
Officer  
1807 Ross Avenue, Suite 500  
Dallas, Texas 75201  
(214) 303-6689  
[www.beckgroup.com](http://www.beckgroup.com)

### **Alfred Benesch & Co.**

John Carrato, President & CEO  
35 West Wacker Drive, Suite 3300  
Chicago, Ill. 60601  
(312) 565-0450  
[www.benesch.com](http://www.benesch.com)

### **Louis Berger**

James D Stamatis, President/CEO  
P.O. Box 1946, Mt. Kemble Ave  
Morristown, N.J. 7692  
(973) 407-1000  
[www.louisberger.com](http://www.louisberger.com)

### **Bergmann**

Pietro V. Giovenco, PE, President &  
CEO  
280 E Broad Street  
Rochester, N.Y. 14604  
(585) 232-5135  
[www.bergmannpc.com](http://www.bergmannpc.com)

### **Bermello Ajamil & Partners Inc.**

Luis Ajamil, CEO/President

2601 S. Bayshore Drive, Suite 1000  
Miami, Fla. 33133  
(305) 859-2050  
[www.bermelloajamil.com](http://www.bermelloajamil.com)

### **Beta Group Inc.**

Frank J. Romeo, CEO/President  
6 Blackstone Valley Place, Suite #101  
Lincoln, R.I. 2865  
(401) 333-2382  
[www.beta-inc.com](http://www.beta-inc.com)

### **Beyer Blinder Belle, Architects and Planners LLP**

Frederick Bland, Managing Partner  
120 Broadway, 20th Floor  
New York, N.Y. 10271  
(212) 777-7800  
[www.beyerblinderbelle.com](http://www.beyerblinderbelle.com)

### **BGE Inc. (Brown & Gay Engineers Inc.)**

Lee C. Lennard, PE, F. SAME,  
President and CEO  
10777 Westheimer, Ste 400  
Houston, Texas 77042  
(281) 558-8700  
[bgeinc.com](http://bgeinc.com)

### **BHDP Architecture**

Michael J. Habel, AIA, President &  
Chief Executive Officer  
302 West 3rd Street, Suite 500  
Cincinnati, Ohio 45202  
(513) 271-1634  
[www.bhdp.com](http://www.bhdp.com)

### **Bilfinger Industrial Services North America Holding Inc.**

Terri Ivers, Executive President  
10497 Town and Country Way, Ste. 120  
Houston, Texas 77024  
(713) 714-1530  
[www.is-usa.bilfinger.com/](http://www.is-usa.bilfinger.com/)

### **Binkley & Barfield Inc.**

James Brett Binkley, CEO  
1710 Seamist Drive  
Houston, Texas 77008  
(713) 869-3433  
[www.binkleybarfield.com](http://www.binkleybarfield.com)

### **BKF Engineers**

David LaVelle, President/CEO  
255 Shoreline Drive Suite 200  
Redwood City, Calif. 94065

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(650) 482-6300  
www.BKF.com

**BL Cos. Inc.**

Carolyn Stanworth, President & CEO  
355 Research Parkway  
Meriden, Conn. 6450  
(203) 630-1406  
www.blcompanies.com

**Black & Veatch**

Steve Edwards, Chairman & CEO  
11401 Lamar Avenue  
Overland Park, Kan. 66211  
(913) 458-2000  
www.bv.com

**Boarman Kroos Vogel Group Inc.**

Jack Boarman, CEO  
222 N. 2nd St., Ste. 101  
Minneapolis, Minn. 55401  
(612) 339-3752  
www.bkvgroup.com

**Bohannan Huston Inc.**

Bruce J. Stidworthy, President  
7500 Jefferson Street NE  
Albuquerque, N.M. 87109  
(505) 823-1000  
bhinc.com

**Bolton & Menk Inc.**

Brad DeWolf, P.E., President/CEO  
1960 Premier Drive  
Mankato, Minn. 56001  
(507) 625-4171  
bolton-menk.com

**Borton-Lawson**

Christopher L. Borton, CEO  
613 Baltimore Drive, Suite 300  
Wilkes-Barre, Pa. 18702  
(570) 821-1999  
<https://www.borton-lawson.com/>

**Boswell Engineering Inc.**

Stephen T. Boswell, Ph.D.,  
President/CEO  
330 Phillips Avenue  
South Hackensack, N.J. 7606  
(201) 641-0770  
www.boswellengineering.com

**Boulder Associates Architects**

Will Loftis, EVP  
1426 Pearl St, Ste 300

Boulder, Colo. 80302  
(800) 499-7796  
boulderassociates.com

**Bowman Consulting Group**

Gary Bowman, President  
14020 Thunderbolt Pl, STE 300  
Chantilly, Va. 20151  
(703) 464-1000  
www.bowmanconsulting.com

**BR+A Consulting Engineers LLC**

Allan Ames, President  
10 Guest Street  
Boston, Mass. 2135  
(617) 254-0016  
www.brplusa.com

**Braun Intertec**

Jon Carlson, CEO  
11001 Hampshire Ave  
Bloomington, Minn. 55438  
(952) 995-2000  
www.braunintertec.com

**Bridgefarmer & Associates Inc.**

M. Mansoor Ahsan, PE, Chief  
Executive Officer  
2350 Valley View Lane  
Dallas, Texas 75234  
(972) 231-8800  
www.bridgefarmer.com

**Brown and Caldwell**

Rich D'Amato, CEO and President  
201 N Civic Drive, Suite 300  
Walnut Creek, Calif. 94596  
(925) 937-9010  
www.browncaldwell.com

**Brown Reynolds Watford Architects Inc.**

Craig Reynolds, Managing Principal  
3535 Travis St., Ste 250  
Dallas, Texas 75204  
(214) 528-8704  
www.brwarch.com

**BRPH**

Brian Curtin, P.E., CEO, Chairman of  
the Board, President  
5700 N. Harbor City Blvd., Suite 400  
Melbourne, Fla. 32940  
(321) 254-7666  
www.brph.com

**BSA LifeStructures**

Melissa Davis, President  
9365 Counselors Row  
Indianapolis, Ind. 46240  
(317) 819-7878  
www.bsalifestructures.com

**Buchart Horn Inc.**

Brain S. Funkhouser, PE,  
President/CEO  
The Russell E. Horn Building, 445 West  
Philadelphia Street  
York, Pa. 17401-3383  
(717) 852-1400  
www.bucharthorn.com

**Bureau Veritas**

Natalia Shuman, EVP and CEO  
1601 Sawgrass Corp Pkwy, Suite 400  
Fort Lauderdale, Fla. 33323  
(954) 236-3810  
www.us.bureauveritas.com

**Burgess & Niple Inc.**

Ronald Schultz, President  
5085 Reed Rd  
Columbus, Ohio 43220  
(180) 028-2176  
www.burgessniple.com

**The Burke Group Ltd.**

Christopher B. Burke, Chairman  
9575 W. Higgins Road, Suite 700  
Rosemont, Ill. 60018  
(847) 823-0500  
www.cbbel.com

**Burns & McDonnell**

Ray Kowalik, Chairman, President,  
CEO  
9400 Ward Parkway  
Kansas City, Mo. 64114  
(816) 333-9400  
www.burnsmcd.com

**Burns Engineering Inc.**

Matthew J Burns, PE, President, CEO  
2001 Market Street, Suite 600  
Philadelphia, Pa. 19103  
(215) 979-7700  
www.burns-group.com

**Burrow Global LLC**

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& Chairman  
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[www.burrowglobal.com](http://www.burrowglobal.com)

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380 St. Peter Street, Ste. 600  
Saint Paul, Minn. 55102  
(651) 222-3701  
[www.bwbr.com](http://www.bwbr.com)

### **C&I Engineering**

M Gregg Fowler, Executive Director of  
Engineering  
1930 Bishop Lane Suite 800  
Louisville, Ky. 40218  
(502) 451-4977  
[www.cieng.com](http://www.cieng.com)

### **C&S Cos.**

John D. Trimble, President  
499 Col. Eileen Collins Blvd.  
Syracuse, N.Y. 13212  
(315) 455-2000  
[www.cscos.com](http://www.cscos.com)

### **CALYX Engineers and Consultants**

Jill Wells Heath, President & CEO  
6750 Tryon Road  
Cary, N.C. 27518  
(919) 836-4800  
[www.CALYXengineers.com](http://www.CALYXengineers.com)

### **Cambridge Seven Associates**

Gary Johnson, President  
1050 Massachusetts Avenue  
Cambridge, Mass. 2138  
6174927000  
[www.c7a.com](http://www.c7a.com)

### **CannonDesign**

Brad Lukanic, CEO  
2170 Whitehaven Road  
Grand Island, N.Y. 14072  
(716) 773-6800  
[www.CannonDesign.com](http://www.CannonDesign.com)

### **Cardno Inc.**

Andy Goodwin, Chief Executive  
Officer  
10004 Park Meadows Drive, Suite 300  
Lone Tree, Colo. 80124  
(720) 257-5800  
[www.cardno.com](http://www.cardno.com)

### **Carollo Engineers**

B. Narayanan, President/CEO  
2700 Ygnacio Valley Road, Suite 300  
Walnut Creek, Calif. 94598  
(925) 932-1710  
[carollo.com](http://carollo.com)

### **Carrier Johnson + CULTURE**

Gordon R. Carrier, FAIA, NCARB,  
Design Principal  
1301 Third Avenue  
San Diego, Calif. 92101  
(619) 239-2353  
[www.carrierjohnson.com](http://www.carrierjohnson.com)

### **CB&I**

Patrick K. Mullen, President & CEO  
2103 Research Forest Drive  
The Woodlands, Texas 77380  
(832) 513-1000  
[www.cbi.com](http://www.cbi.com)

### **CBRE Group Inc.**

Robert E. Sulentic, President and Chief  
Executive Officer  
400 South Hope St., 25th Flr  
Los Angeles, Calif. 90071  
(213) 613-3333  
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Michael Castleman, President and CEO  
1735 Market Street, Suite 200  
Philadelphia, Pa. 19103  
(215) 529-2200  
[www.cdicorp.com](http://www.cdicorp.com)

### **CDM Smith**

Timothy B. Wall, Chairman and Chief  
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75 State Street, Suite 701  
Boston, Mass. 2109  
(617) 452-6000  
[www.cdsmith.com](http://www.cdsmith.com)

### **Century Engineering Inc.**

Francis X. Smyth, CEO  
10710 Gilroy Road  
Hunt Valley, Md. 21031  
(443) 589-2400  
[www.centuryeng.com](http://www.centuryeng.com)

### **CESO Inc**

David Oakes, Principal  
3601 Rigby Road, Suite 300  
Miamisburg, Ohio 45342

(937) 435-8584  
[www.cesoinc.com](http://www.cesoinc.com)

### **CHA Consulting Inc.**

Michael Carroll, CEO & President  
3 Winners Circle  
Albany, N.Y. 12205  
(518) 453-4500  
[www.chacompanies.com](http://www.chacompanies.com)

### **Chipman Design Architecture**

Lauren Chipman, CEO | Principal  
1350 E. Touhy Ave, First Floor East  
Des Plaines, Ill. 60018  
(847) 298-6900  
[www.chipman-design.com](http://www.chipman-design.com)

### **Civil & Environmental Consultants Inc.**

Ken R. Miller, P.E., President and CEO  
333 Baldwin Road  
Pittsburgh, Pa. 15205  
(800) 365-2324  
[www.cecinc.com](http://www.cecinc.com)

### **Clark Nexsen Inc.**

Chris Stone, CEO  
4525 Main Street, Suite 1400  
Virginia Beach, Va. 23462  
(757) 455-5800  
<https://clarknexsen.com>

### **CPL**

Todd Liebert, AIA, CEO  
205 St Paul St Suite 500  
Rochester, N.Y. 14604  
(800) 274-9000  
[www.CPLteam.com](http://www.CPLteam.com)

### **CO Architects**

Scott Kelsey, Managing Principal  
5055 Wilshire Blvd., 9th Floor  
Los Angeles, Calif. 90036  
(323) 525-0500  
[www.coarchitects.com](http://www.coarchitects.com)

### **Cobb, Fendley & Associates Inc.**

Dale Conger, P.E., President  
13430 Northwest Freeway, Suite 1100  
Houston, Texas 77040  
(713) 462-3242  
[www.cobbfendley.com](http://www.cobbfendley.com)

### **Coffman Engineers Inc.**

Dave Gardner, CEO  
1101 2nd Ave., Suite 400

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(206) 623-0717  
[www.coffman.com](http://www.coffman.com)

**Collins Engineers Inc.**

Daniel G. Cecchi, P.E., President  
123 N. Wacker Dr., Ste. 900  
Chicago, Ill. 60606  
(312) 704-9300  
[www.collinsengr.com](http://www.collinsengr.com)

**Commonwealth Associates Inc.**

Richard N. Collins, P.E., Chief  
Executive Officer  
2700 W Argyle St  
Jackson, Mich. 49202  
(517) 788-3000  
[www.cai-engr.com](http://www.cai-engr.com)

**Cooper Carry**

Kevin R. Cantley, President & CEO  
191 Peachtree Street, NE Suite 2400  
Atlanta, Ga. 30303  
(404) 237-2000  
[www.coopercarry.com](http://www.coopercarry.com)

**Core States Group**

John Scheffey, Chief Executive Officer  
3039 Premiere Parkway Suite 700  
Duluth, Ga. 30097  
(813) 319-8755  
[www.core-eng.com](http://www.core-eng.com)

**Corgan**

Bob Morris, President, Chief Executive  
Officer  
401 North Houston St  
Dallas, Texas 75202  
(214) 748-2000  
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**COWI North America Inc.**

Simon Kim, President  
1191-2nd Avenue, Unit 1110  
Seattle, Wash. 98101  
(206) 216-3933  
[www.cowi-na.com](http://www.cowi-na.com)

**CP&Y Inc.**

Pete Patel, PE, CEO  
1820 Regal Row  
Dallas, Texas 75235  
(214) 638-0500  
[www.cpyi.com](http://www.cpyi.com)

**CPH Inc.**

Kamran Khosravani, Chief Executive  
Officer  
500 West Fulton Street  
Sanford, Fla. 32771  
(407) 322-6841  
[www.cphcorp.com](http://www.cphcorp.com)

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Matt Crafton, President & CEO  
901 N. 47th Street, Suite 200  
Rogers, Ark. 72756  
(479) 636-4838  
[www.craftontull.com](http://www.craftontull.com)

**Crawford, Murphy & Tilly Inc.**

Daniel R. Meckes, Chief Executive  
Officer & Chairman  
2750 W Washington Street  
Springfield, Ill. 62702  
(217) 787-8050  
[www.cmtengr.com](http://www.cmtengr.com)

**CRB**

Jeffrey A. Biskup, PE, Chairman/CEO  
1251 NW Briarcliff Parkway, Suite 500  
Kansas City, Mo. 64116  
(816) 880-9800  
[www.crbusa.com](http://www.crbusa.com)

**CTA Architects Engineers**

Scott Wilson, President  
13 N 23rd Street  
Billings, Mont. 59101  
(406) 248-7455  
[www.ctagroup.com](http://www.ctagroup.com)

**CTL Engineering Inc.**

C.K. Satyapriya, P.E., President & CEO  
2860 Fisher Road  
Columbus, Ohio 43204  
(614) 276-8123  
[www.ctleng.com](http://www.ctleng.com)

**CTL/Thompson Inc.**

Ronald M. McOmber, CEO and  
Chairman  
7306 South Alton Way  
Centennial, Colo. 80112  
(303) 825-0777  
[www.ctlt.com](http://www.ctlt.com)

**Cuhaci & Peterson**

Greg Simpson, CEO  
1925 Prospect Ave  
Orlando, Fla. 32814  
(407) 661-9100

[www.c-p.com](http://www.c-p.com)

**Cunningham Group Architecture Inc.**

Timothy Dufault, FAIA, President,  
CEO  
201 Main Street SE, Suite 325  
Minneapolis, Minn. 55414  
(612) 379-3400  
[www.cunningham.com](http://www.cunningham.com)

**D&B Engineers and Architects PC**

Steven A. Fangmann, President  
330 Crossways Park Drive  
Woodbury, N.Y. 11797  
(516) 364-9890  
[www.db-eng.com](http://www.db-eng.com)

**Dahlin Group Architecture Planning**

Nancy Keenan, President  
5865 Owens Drive  
Pleasanton, Calif. 94588  
(925) 251-7200  
[www.dahlingroup.com](http://www.dahlingroup.com)

**Leo A Daly**

Dennis Petersen, President  
8600 Indian Hills Dr.  
Omaha, Neb. 68114  
(402) 391-8111  
[www.leoadaly.com](http://www.leoadaly.com)

**Dannenbaum Engineering Corp.**

James D. Dannenbaum, P.E., CEO /  
President  
3100 W. Alabama  
Houston, Texas 77098  
(713) 520-9570  
[www.dannenbaum.com](http://www.dannenbaum.com)

**Dattner Architects**

Beth Greenberg, Principal, President  
1385 Broadway, 15th Floor  
New York, N.Y. 10018  
(212) 247-2660  
[www.dattner.com](http://www.dattner.com)

**Davis Brody Bond**

Steven Davis, William Paxson, Carl  
Krebs, Christopher Grabé, David  
Williams, Partners  
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New York, N.Y. 10004  
(212) 633-4700  
[www.davisbrody.com](http://www.davisbrody.com)

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Brit Probst, Principal / President  
2901 Blake Street, Suite 100  
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Hal Yoh, Chair & CEO  
1500 Spring Garden St.  
Philadelphia, Pa. 19130  
(215) 299-8000  
[www.dayzim.com](http://www.dayzim.com)

**D'Amato Conversano Inc., dba DCI Engineers Inc.**  
Mark Aden, Principal, CEO  
818 Stewart Street, Suite 1000  
Seattle, Wash. 98101  
(206) 332-1900  
[www.dci-engineers.com](http://www.dci-engineers.com)

**Degenkolb Engineers**  
Stacy Bartoletti, CEO, President,  
Principal  
375 Beale Street, Suite 500  
San Francisco, Calif. 94105  
(415) 392-6952  
[degenkolb.com](http://degenkolb.com)

**Dekker/Perich/Sabatini**  
Steven J. Perich, AIA, President  
7601 Jefferson St. NE #100  
Albuquerque, N.M. 87109  
(505) 761-9700  
[www.dpsdesign.org](http://www.dpsdesign.org)

**Dennis Group**  
Tom Dennis, President  
1537 Main Street  
Springfield, Mass. 1103  
(413) 787-1785  
[dennisgroup.com](http://dennisgroup.com)

**Robert Derector Associates**  
Robert Derector, President  
19 West 44th Street  
New York, N.Y. 10036  
(212) 764-7272  
[www.derector.com](http://www.derector.com)

**DES Architects + Engineers**  
Steve Mincey, CEO | Principal  
399 Bradford Street  
Redwood City, Calif. 94064  
(650) 364-6453  
[www.des-ae.com](http://www.des-ae.com)

**Design Collective Inc.**  
Fred S. Marino, President  
601 E. Pratt Street, Suite 300  
Baltimore, Md. 21202  
(410) 685-6655  
[www.designcollective.com](http://www.designcollective.com)

**Design Systems Inc.**  
Daniel Birchmeier, Chief Operating  
Officer  
38799 W 12 Mile RD  
Farmington Hills, Mich. 48331  
(248) 489-4300  
[www.dsidsc.com](http://www.dsidsc.com)

**DeSimone Consulting Engineers**  
Stephen DeSimone, President/Chief  
Executive  
140 Broadway, 25th Floor  
New York, N.Y. 10005  
(212) 532-2211  
[www.de-simone.com](http://www.de-simone.com)

**Dewberry**  
Donald E. Stone, Jr., CEO  
8401 Arlington Blvd  
Fairfax, Va. 22031  
(703) 849-0307  
[www.dewberry.com](http://www.dewberry.com)

**DGA Inc.**  
Randall Dowler, AIA, President and  
Managing Principal  
550 Ellis Street  
Mountain View, Calif. 94043  
(650) 943-1660  
[www.dgaonline.com](http://www.dgaonline.com)

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David L. Peeler, President/CEO  
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Charlotte, N.C. 28205  
(704) 334-5348  
[www.wkdickson.com](http://www.wkdickson.com)

**DLR Group**  
Griff Davenport, FAIA, Managing  
Principal  
520 Nicollet Mall Suite 200  
Minneapolis, Minn. 55402  
(612) 977-3500  
[www.dlrgroup.com](http://www.dlrgroup.com)

**DLZ Corp.**

Vikram (RAJ) Rajadhyaksha, PE,  
Chairman and CEO  
6121 Huntley Rd.  
Columbus, Ohio 43229  
(614) 888-0040  
[www.dlz.com](http://www.dlz.com)

**Dokken Engineering**  
Richard Dokken, CEO  
110 Blue Ravine Road, Suite 200  
Folsom, Calif. 95630  
(916) 858-0642  
[www.dokkenengineering.com](http://www.dokkenengineering.com)

**Donohue & Associates Inc.**  
Craig W. Brunner, President  
3311 Weeden Creek Raod  
Sheboygan, Wis. 53081  
(920) 208-0296  
[www.donohue-associates.com](http://www.donohue-associates.com)

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CEO  
4041 B Street  
Anchorage, Alaska 99503  
(907) 562-2000  
[www.dowl.com](http://www.dowl.com)

**Draper Aden Associates Inc.**  
Jeffrey Lighthiser, CEO  
8090 Villa ak Drive  
Richmond, Va. 23228  
(804) 264-2228  
[www.daa.com](http://www.daa.com)

**DRMP Inc.**  
Wayne Chalifoux, PE, President/CEO  
941 Lake Baldwin Lane  
Orlando, Fla. 32814  
(407) 896-0594  
[www.drmp.com](http://www.drmp.com)

**Dudek**  
Frank Dudek, CEO  
605 3rd Street  
Encinitas, Calif. 92024  
(760) 942-5147  
[www.Dudek.com](http://www.Dudek.com)

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(410) 584-7000  
*www.eaest.com*

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Craig S. Hill, President/CEO  
720 Aerovista Place, Suite A  
San Luis Obispo, Calif. 93401  
(805) 781-0112  
*www.earthsystems.com*

### **EBA Engineering Inc.**

Rizwan A. Siddiqi, PE, President & CEO  
6100 Chevy Chase Drive, Suite 200  
Laurel, Md. 20707  
(240) 547-1124  
*ebaengineering.com*

### **Ecology and Environment Inc.**

Gerard A. Gallagher III, President and Chief Executive Officer  
368 Pleasant View Dr.  
Lancaster, N.Y. 14086  
(716) 684-8060  
*www.ene.com*

### **ECS**

Henry L. Lucas, PE, CEO/President  
14026 Thunderbolt Place, Suite 300  
Chantilly, Va. 20151  
(571) 299-6000  
*www.ecslimited.com*

### **EFI Global Inc.**

Jeremy Mele, President  
3030 N. Rocky Point Dr. W Suite 530  
Tampa, Fla. 33607  
(888) 888-2467  
*www.efiglobal.com*

### **Electrical Consultants Inc.**

Bruce LaMeres, CEO  
3521 Gabel Road  
Billings, Mont. 59102  
(406) 259-9933  
*electricalconsultantsinc.com*

### **Elkus Manfredi Architects**

David P Manfredi FAIA, LEED AP,  
Founder  
25 Drydock Avenue  
Boston, Mass. 2210  
(617) 426-1300  
*www.elkus-manfredi.com*

### **EMH&T**

Sandra C Doyle-Ahern, President  
5500 New Albany Road  
Columbus, Ohio 43054  
(614) 775-4500  
*www.emht.com*

### **EN Engineering LLC**

Steven Knowles, CEO  
28100 Torch Parkway, SUite 400  
Warrenville, Ill. 60555-3938  
(630) 353-4000  
*www.enengineering.com*

### **Enercon Services Inc.**

John Richardson, President and CEO  
500 Townpark Lane  
Kennesaw, Ga. 30144-5870  
(404) 775-5045  
*Enercon Services Inc.*

### **England-Thims & Miller Inc.**

N. Hugh Mathews, CEO  
14775 Old St. Augustine Road  
Jacksonville, Fla. 32216  
(904) 642-8990  
*www.etminc.com*

### **Ennead Architects**

N/A, N/A  
320 W 13th Street  
New York, N.Y. 10014  
(212) 807-7171  
*www.ennead.com*

### **EnSafe Inc.**

Don Bradford, President & CEO  
5724 Summer Trees Dr  
Memphis, Tenn. 38134  
(901) 372-7962  
*www.ensafe.com*

### **Eppstein Uhen Architects Inc.**

Greg Uhen, CEO  
333 East Chicago Street  
Milwaukee, Wis. 53202  
(414) 271-5350  
*www.eua.com*

### **Epstein**

Michael H. Damore, Executive  
Managing Director  
600 West Fulton Street  
Chicago, Ill. 60661  
(312) 454-9100  
*www.epsteinglobal.com*

### **Erdman Anthony**

Curt Helman, PE, President/CEO  
145 Culver Road, Suite 200  
Rochester, N.Y. 14620  
(585) 427-8888  
*www.erdmananthony.com*

### **ESD**

Zackery House, Chief Executive Officer  
233 South Wacker Drive, Suite 5300  
Chicago, Ill. 60606  
(312) 372-1200  
*www.esdglobal.com*

### **ESG Architecture & Design**

Aaron Roseth, President and Partner  
500 Washington Avenue South, Suite  
1080  
Minneapolis, Minn. 55415  
(612) 339-5508  
*www.esgarch.com*

### **ESP Associates PA**

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3475 Lakemont Blvd.  
Fort Mill, S.C. 29708  
(803) 802-2440  
*www.espassociates.com*

### **David Evans Enterprises Inc.**

Al Barkouli, Chairman, CEO  
2100 SW River Parkway  
Portland, Ore. 97201  
(503) 223-6663  
*www.deainc.com*

### **EwingCole**

Jared Loos, Chairman  
100 North 6th Street  
Philadelphia, Pa. 19106  
(215) 923-2020  
*www.ewingcole.com*

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CEO  
205 North Michigan Ave, Suite 3600  
Chicago, Ill. 60601

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(312) 616-0000  
[www.exp.com/en/home](http://www.exp.com/en/home)

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Tom Birdsey, AIA, CEO and President  
 201 Fuller Road, 5th Floor  
 Albany, N.Y. 12203  
 (518) 795-3800  
[www.eypae.com](http://www.eypae.com)

**Farnsworth Group**

Karen M. Jensen, President & CEO  
 2709 McGraw Drive  
 Bloomington, Ill. 61704  
 (309) 663-8435  
[www.f-w.com](http://www.f-w.com)

**Fehr & Peers**

Matt Henry, President/Chief Executive Officer  
 100 Pringle Avenue #600  
 Walnut Creek, Calif. 94596  
 (925) 977-3200  
[www.fehrandpeers.com](http://www.fehrandpeers.com)

**fentress architects**

Curt, Fentress  
 421 Broadway  
 Denver, Colo. 80203  
 (303) 722-5000  
[www.fentressarchitects.com](http://www.fentressarchitects.com)

**FFKR Architects**

Roger P. Jackson, FAIA, LEED AP, President  
 730 Pacific Avenue  
 Salt Lake City, Utah 84104  
 (801) 521-6186  
[www.ffkr.com](http://www.ffkr.com)

**Fishbeck, Thompson, Carr & Huber**

Jim Susan, President/Principal  
 1515 Arboretum Drive SE  
 Grand Rapids, Mich. 49546  
 (616) 575-3824  
[www.ftch.com](http://www.ftch.com)

**Flad Architects**

Jeffrey C. Zutz, AIA, LEED AP, CEO/President  
 644 Science Drive  
 Madison, Wis. 53711  
 (608) 238-2661  
[www.Flad.com](http://www.Flad.com)

**Fluor Corp.**

David Seaton, Chariman and CEO  
 6700 Las Colinas Blvd  
 Irving, Texas 75039  
 (469) 398-7000  
[www.fluor.com](http://www.fluor.com)

**Foth Cos.**

Randall Homel, Pres/CEO  
 2121 Innvovation Court  
 De Pere, Wis. 54115  
 (920) 496-6744  
[www.Foth.com](http://www.Foth.com)

**FRCH Design Worldwide**

James Tippmann, Co-CEO  
 311 Elm Street, Suite 600  
 Cincinnati, Ohio 45202  
 (513) 241-3000  
[www.frch.com](http://www.frch.com)

**Freese and Nichols Inc.**

Brian Coltharp, President and CEO  
 4055 International Plaza, Suite 200  
 Fort Worth, Texas 76110  
 (817) 735-7300  
[www.freese.com](http://www.freese.com)

**Fugro**

Ed Saade, President  
 6100 Hillcroft Street  
 Houston, Texas 77081  
 (713) 369-5530  
[www.fugro.com](http://www.fugro.com)

**Fullerton Engineering Consultants Inc.**

Henry M. Bellagamba, CEO  
 1100 E. Woodfield Rd. Suite 500  
 Schaumburg, Ill. 60173  
 (847) 908-8400  
[www.fullertonengineering.com](http://www.fullertonengineering.com)

**Fuss & O'Neill Inc.**

Peter Grose, President, CEO  
 146 Hartford Road  
 Manchester, Conn. 6040  
 (860) 646-2469  
[www.fando.com](http://www.fando.com)

**FXCollaborative**

Guy Geier, Managing Partner  
 22 West 19 Street  
 New York, N.Y. 10011  
 (212) 627-1700  
[www.fxcollaborative.com](http://www.fxcollaborative.com)

**GAI Consultants Inc.**

Gary DeJidas, PE, MBA, Chairman & CEO  
 385 East Waterfront Drive  
 Homestead, Pa. 15120  
 (412) 476-2000  
[www.gaiconsultants.com](http://www.gaiconsultants.com)

**Gannett Fleming**

Robert M. Scaer, PE, Chairman of the Board and Chief Executive Officer  
 207 Senate Avenue  
 Camp Hill, Pa. 17011  
 (717) 763-7211  
[www.gannettfleming.com](http://www.gannettfleming.com)

**Garver**

Daniel H. Williams, PE, President/Chief Executive Officer  
 4701 Northshore Drive  
 North Little Rock, Ark. 72118  
 (501) 376-3633  
[www.GarverUSA.com](http://www.GarverUSA.com)

**The Gateway Engineers Inc.**

Jason D. Jesso, Chief Executive Officer  
 100 McMorris Road  
 Pittsburgh, Pa. 15205  
 (412) 921-4030  
[www.gatewayengineers.com](http://www.gatewayengineers.com)

**GBA**

Tim Ross, President/CEO  
 9801 Renner Blvd  
 Lenexa, Kan. 66219  
 (913) 577-8220  
[www.gbateam.com](http://www.gbateam.com)

**GBBN**

Matthew, Schottelkotte  
 332 East 8th Street  
 Cincinnati, Ohio 45202  
 (513) 241-8700  
[www.gbbn.com](http://www.gbbn.com)

**GEI Consultants Inc.**

Ronald Palmieri, PE, President / Chief Executive Officer  
 400 Unicorn Park Drive  
 Woburn, Mass. 1801  
 (781) 721-4000  
[www.geiconsultants.com](http://www.geiconsultants.com)

**Gensler**

Diane Hoskins & Andy Cohen,  
 CoCEOs

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1700 Broadway, Suite 400  
New York, N.Y. 10019  
(212) 492-1400  
[www.gensler.com](http://www.gensler.com)

**Geocon**

Joseph Vettel, CEO  
6960 Flanders Drive  
San Diego, Calif. 92121  
(858) 558-6900  
[www.geoconinc.com](http://www.geoconinc.com)

**GeoEngineers Inc.**

Michael Hutchinson, CEO  
17425 NE Union Hill Rd, #250  
Redmond, Wash. 98052  
(425) 861-6000  
[www.geoengineers.com](http://www.geoengineers.com)

**Geo-Logic Associates Inc.**

Gary L. Lass, P.G., C.E.G., C.Hg.,  
Chief Executive Officer  
2777 East Guasti Road  
Ontario, Calif. 91761  
(909) 626-2282  
[www.geo-logic.com](http://www.geo-logic.com)

**Geosyntec Consultants Inc.**

Pete Zeeb, CEO  
2002 Summit Blvd, Suite 885  
Atlanta, Ga. 30319  
(404) 267-1100  
[www.geosyntec.com](http://www.geosyntec.com)

**Geotechnology Inc.**

Edmond Alizadeh, P.E., President/CEO  
11816 Lackland Road, Suite 150  
St. Louis, Mo 63146  
(314) 997-7440  
[www.geotechnology.com](http://www.geotechnology.com)

**GFF**

Duncan T. Fulton, III, FAIA, LEED  
AP, President/CEO  
2808 Fairmount Street, Suite 300  
Dallas, Texas 75214  
(214) 303-1500  
[www.gff.com](http://www.gff.com)

**Ghafari Associates LLC**

Kouhaila G. Hammer, President + CEO  
17101 Michigan Avenue  
Dearborn, Mich. 48126  
(313) 441-3000  
[www.ghafari.com](http://www.ghafari.com)

**GHD Inc.**

Ashley Wright, CEO  
Suite 200, 175 Technology Drive  
Irvine, Calif. 92618  
(949) 648-5200  
[www.ghd.com](http://www.ghd.com)

**Ghilotti Bros. Inc.**

Michael Ghilotti, President  
525 Jacoby St.  
San Rafael, Calif. 94901  
(415) 454-7011  
[www.ghilottibros.com](http://www.ghilottibros.com)

**Goettsch Partners**

James Goettsch, Chairman and CEO  
224 South Michigan Avenue, Floor 17  
Chicago, Ill. 60604  
(312) 356-0600  
[www.gpchicago.com](http://www.gpchicago.com)

**Golder Associates Corp.**

Hisham Mahmoud, PhD, PE, Global  
President & CEO  
3801 PGA Blvd. Suite 603  
Palm Beach, Fla. 33410  
(561) 277-0185  
[www.golder.com](http://www.golder.com)

**Goodwyn Mills Cawood**

Jeffrey Brewer, Chief Executive Officer  
2660 EastChase Lane, Suite 200  
Montgomery, Ala. 36117  
(334) 271-3200  
[www.gmcnetwork.com](http://www.gmcnetwork.com)

**GP Strategies Corp.**

Scott Greenberg, CEO  
11000 Broken Land pkwy Suite 200  
Columbia, Md. 21044  
(443) 367-2905  
[www.gpstrategies.com](http://www.gpstrategies.com)

**GPD Group**

Darrin Kotecki, President  
520 South Main, Suite 2531  
Akron, Ohio 44644  
(330) 572-2100  
[www.gpdgroup.com](http://www.gpdgroup.com)

**GRAEF**

John Kissinger, Chief Executive  
Officer/President  
125 S. 84th Street Suite 401  
Milwaukee, Wis. 53214  
(414) 259-1500

[www.graef-usa.com](http://www.graef-usa.com)

**Greeley and Hansen**

Andrew W. Richardson, Chairman and  
CEO  
100 S. Wacker Drive, Suite 1400  
Chicago, Ill. 60606  
(312) 558-9000  
[www.greeley-hansen.com](http://www.greeley-hansen.com)

**HR Green Inc.**

Steven Heyer, Chief Executive Officer  
8710 Earhart Lane SW  
Cedar Rapids, Iowa 52404  
(319) 841-4000  
[www.hrgreen.com](http://www.hrgreen.com)

**GreenbergFarrow**

Esmail Ghadrnan, President  
1430 West Peachtree St, NW Suite 200  
Atlanta, Ga. 30309  
(770) 457-2376  
[www.greenbergfarrow.com](http://www.greenbergfarrow.com)

**Greenman-Pedersen (GPI)**

Ralph Csogi, CEO  
80 Wolf Road  
Albany, N.Y. 12205  
(631) 587-5060  
[www.gpinet.com](http://www.gpinet.com)

**Gresham, Smith and Partners**

Alan J. Pramuk, Chairman and CEO  
222 Second Avenue South, Suite 1400  
Nashville, Tenn. 37201  
(615) 770-8100  
[www.greshamsmith.com](http://www.greshamsmith.com)

**Grimm + Parker Architects**

Melanie Hennigan, President  
11720 Beltsville Drive, Suite 600  
Calverton, Md. 21114  
(301) 595-1000  
[www.grimmandparker.com](http://www.grimmandparker.com)

**GRW Engineers Inc.**

Ron D. Gilkerson, Chairman  
801 Corporate Drive  
Lexington, Ky. 40503  
(859) 223-3999  
[www.grwinc.com](http://www.grwinc.com)

**Guernsey**

Suhas P. Patwardhan, CEO/President  
5555 N. Grand Blvd.  
Oklahoma City, Okla. 73112

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(405) 416-8100  
www.guernsey.us

**Gulf Interstate Engineering Co.**

Rick Barnard, President & CEO  
16010 Barkers Point Lane, Suite 600  
Houston, Texas 77079-9000  
(713) 850-3400  
www.gie.com

**GZA**

William E. Hadge, P.E., President & CEO  
249 Vanderbilt Avenue  
Norwood, Mass. 2062  
(781) 278-3700  
www.gza.com

**H&M Co. Inc.**

James E. Campbell, III, CEO  
50 Security Drive  
Jackson, Tenn. 38305  
(731) 664-6300  
www.hmcompany.com

**H2M architects + engineers**

Richard Humann, Chairman, Chief Executive Office, President  
538 Broadhollow Road, 4th Floor East  
Melville, N.Y. 11747  
(631) 756-8000  
www.h2m.com

**HAKS**

Husam Ahmad, Charirman & CEO  
40 Wall Street, 11th FL  
New York, N.Y. 10005  
(212) 747-1997  
www.haks.net

**Haley & Aldrich Inc.**

LAWRENCE P. SMITH,  
CEO/PRESIDENT  
70 BLANCHARD RD. #204  
Burlington, Mass. 1803  
(617) 886-7400  
www.haleyaldrich.com

**Half Associates Inc.**

Patrick Kunz, President  
1201 North Bowser Road  
Richardson, Texas 75081  
(214) 346-6200  
www.halff.com

**Hanson Professional Services Inc.**

Sergio A Pecori, CEO and Chairman  
1525 South Sixth Street  
Springfield, Ill. 62703  
(217) 788-2450  
www.hanson-inc.com

**Hardesty & Hanover LLC**

Sean A. Bluni, Principal/CEO  
1501 Broadway, Suite 601  
New York, N.Y. 10036  
(212) 944-1150  
www.hardesty-hanover.com

**Hargrove Engineers + Constructors**

Ralph A. Hargrove, President + CEO  
20 S Royal St.  
Mobile, Ala. 36602  
(877) 388-8356  
www.hargrove-epc.com

**Harley Ellis Devereaux**

J. Peter Devereaux, Chairman and CEO  
26913 Northwestern Highway, Suite 200  
Southfield, Mich. 48033  
(248) 262-1500  
www.hed.design

**Hart Howerton**

A. James Tinson, Chief Executive Officer  
10 East 40th Street  
New York, N.Y. 10016  
(212) 683-5631  
www.harthowerton.com

**Hastings Architecture Associates LLC**

William Hastings, David Bailey, David Powell, Principal, Principal, Principal  
127 Third Avenue South  
Nashville, Tenn. 37201  
(615) 329-1399  
www.haa.us

**Hazen and Sawyer**

Charles Hocking, President and CEO  
498 Seventh Avenue  
New York, N.Y. 10018  
(212) 539-7000  
www.hazenandsawyer.com

**HBG Design**

Richard G. Gardner, AIA, Practice Leader

40 S MAIN ST, STE 2300  
MEMPHIS, Tenn. 38103  
(901) 525-2557  
www.hbg.design

**HBK Engineering LLC**

Ronald G Kaminski, CEO  
921 W. Van Buren  
Chicago, Ill. 60607  
(312) 432-0076  
www.hbkengineering.com

**HDR**

Eric L. Keen, PE, Chairman and Chief Executive Officer  
8404 Indian Hills Drive  
Omaha, Neb. 68114  
(402) 399-1000  
hdrinc.com

**Heapy Engineering**

Richard Pavlak, Senior Principal, President  
1400 W Dorothy Lane  
Dayton, Ohio 45409  
(937) 224-0861  
www.heapy.com

**Henderson Engineers**

Richard E. Smith, CEO / President  
8345 Lenexa Drive. Suite 300  
Lenexa, Kan. 66215  
(913) 742-5000  
www.hendersonengineers.com

**Herbert, Rowland & Grubic Inc.**

Robert C. Grubic, P.E., President/CEO  
369 East Park Drive  
Harrisburg, Pa. 17111  
(717) 564-1121  
www.hrg-inc.com

**HGA**

Alexander T. Hunt III, President/C.E.O.  
603 E Reynolds Drive  
Ruston, La. 71270  
(318) 255-6825  
www.hga-llc.com

**HGA**

Tim Carl, FAIA, CEO  
420 North 5th Street, Suite 100  
Minneapolis, Minn. 55401  
(612) 758-4404  
www.hga.com

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**Highland Associates Ltd.**

Gil Ben-Ami, President  
102 Highland Ave.  
Clarks Summit, Pa. 18411  
(570) 586-4334  
[www.highlandassociates.com](http://www.highlandassociates.com)

**Hillis-Carnes Engineering Associates Inc.**

William M. Carnes, PE, President  
10975 Guilford Rd, Suite A  
Annapolis Junction, Md. 20701  
(410) 880-4788  
[www.hcea.com](http://www.hcea.com)

**Hixson Architecture, Engineering, Interiors**

J. Wickliffe Ach, President and CEO  
659 Van Meter Street  
Cincinnati, Ohio 45202  
(513) 241-1230  
[www.hixson-inc.com](http://www.hixson-inc.com)

**HKS**

Dan Noble, CEO  
350 N Saint Paul St  
Dallas, Texas 75201  
(214) 969-5599  
[www.hksinc.com](http://www.hksinc.com)

**HLW International**

John Gering, Susan Boyle, Managing Partners  
115 Fifth Avenue  
New York, N.Y. 10003  
(212) 353-4600  
[www.hlw.com](http://www.hlw.com)

**HMC Architects**

Brian Staton, President and CEO  
3456 Concourse Street  
Los Angeles, Calif. 90071  
(213) 542-8300  
[www.hmcarchitects.com](http://www.hmcarchitects.com)

**HNTB Cos.**

Rob Slimp, Chairman and CEO  
715 Kirk Drive  
Kansas City, Mo. 64105  
(816) 472-1201  
[www.hntb.com](http://www.hntb.com)

**HOK**

Bill Hellmuth, FAIA, Chairman + CEO  
10 South Broadway, Suite 200  
St. Louis, Mo. 63102

(314) 421-2000  
[hok.com](http://hok.com)

**Hord Coplan Macht Inc.**

Lee Coplan, AIA, CEO  
750 E. Pratt Street, Suite 1100  
Baltimore, Md. 21202  
(410) 837-7311  
[www.hcm2.com](http://www.hcm2.com)

**Horrocks Engineers**

James Horrocks, President  
2162 W Grove Parkway, Suite 400  
Pleasant Grove, Utah 84062  
(801) 763-5100  
[www.horrocks.com](http://www.horrocks.com)

**Houston Engineering Inc.**

Jeffrey LeDoux, President/CEO  
1401 21st Ave N  
Fargo, N.D. 58102  
(701) 237-5065  
[www.houstoneng.com](http://www.houstoneng.com)

**Hubbell, Roth & Cark Inc.**

DANIEL W MITCHELL, PRESIDENT  
PO BOX 824  
Bloomfield Hills, Mich. 48303-0824  
(248) 454-6300  
[www.hrcenr.com](http://www.hrcenr.com)

**Huckabee**

Christopher M. Huckabee, Chief Executive Officer  
801 Cherry Street, Suite 500  
Fort Worth, Texas 76102  
(817) 377-2969  
[www.huckabee-inc.com](http://www.huckabee-inc.com)

**Huitt-Zollars Inc.**

Robert Zollars, CEO  
1717 McKinney Avenue, Suite 1400  
Dallas, Texas 75202  
(214) 871-3311  
[www.huitt-zollars.com](http://www.huitt-zollars.com)

**Hull & Associates Inc.**

Craig Kasper, CEO  
6397 Emerald Parkway, Suite 200  
Dublin, Ohio 43016  
(614) 793-8777  
[www.hullinc.com](http://www.hullinc.com)

**Humphreys & Partners Architects LP**

Mark Humphreys, Founder & CEO

5339 Alpha Road, Suite 300  
Dallas, Texas 75240  
(972) 701-9636  
[www.humphreys.com](http://www.humphreys.com)

**IBI Group**

Scott Stewart, CEO  
55 St Clair Ave West, 7th floor  
Toronto, Ontario M4V 2y7  
(614) 818-4900  
[www.ibigroup.com](http://www.ibigroup.com)

**IMEG Corp.**

Paul VanDuyne, President/CEO  
623 26th Avenue  
Rock Island, Ill. 61201  
(309) 788-0673  
[www.imegcorp.com](http://www.imegcorp.com)

**Infrastructure Consulting & Engineering PLLC**

Elham Farzam, President & CEO  
1021 Briargate Circle  
Columbia, S.C. 29210  
(803) 822-0333  
[www.ice-eng.com](http://www.ice-eng.com)

**Infrastructure Engineers Inc.**

David Reser, Chief Executive Officer  
2121 Old Hickory Tree Road  
St. Cloud, Fla. 34772  
(407) 957-1660  
[infrastructureengineers.com](http://infrastructureengineers.com)

**NORR**

Victor Smith, Chief Executive Officer  
325 North LaSalle Street, Suite 500  
Chicago, Ill. 60654  
(312) 424-2400  
[www.norr.com](http://www.norr.com)

**Integral Group**

Kevin Hydes, Founder + CEO  
427 13th Street  
Oakland, Calif. 94612  
(510) 663-2070  
[www.integralgroup.com](http://www.integralgroup.com)

**Integrus Architecture**

Brian Carter, CEO, Principal Architect  
10 South Cedar Street  
Spokane, Wash. 99201  
(509) 838-8681  
[www.integrusarch.com](http://www.integrusarch.com)

**Interface Engineering Inc.**

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Andy Frichtl, PE, LEED AP, Managing Principal  
100 SW Main Street, Suite 1600  
Portland, Ore. 97204  
(503) 226-2266  
[www.interfaceengineering.com](http://www.interfaceengineering.com)

**Intertek-PSI**

Gavin Campbell, Global Senior Vice President  
545 E. Algonquin Road  
Arlington Heights, Ill. 60005  
(800) 548-7901  
[www.intertek.com/building](http://www.intertek.com/building)

**IPS-Integrated Project Services LLC**

Dave Goswami, PE, Chairman & Chief Executive Officer  
721 Arbor Way, Suite 100  
Blue Bell, Pa. 19422  
(610) 828-4090  
[www.ipsdb.com](http://www.ipsdb.com)

**ISG**

Chad Surprenant, President, CEO  
115 E. Hickory St. Suite 300  
Mankato, Minn. 56001  
(507) 387-6651  
[www.is-grp.com](http://www.is-grp.com)

**Jacobs**

Steven J. Demetriou, Chairman and Chief Executive Officer  
1999 Bryan Street, Suite 1200  
Dallas, Texas 75201  
(214) 638-0145  
[www.jacobs.com](http://www.jacobs.com)

**Jaros, Baum & Bolles**

Mitchel W. Simpler, Managing Partner  
80 Pine Street  
New York, N.Y. 10005  
(212) 530-9300  
[www.jbb.com](http://www.jbb.com)

**JCJ Architecture**

Peter N. Stevens, LEED AP, President  
120 Huyshope Ave, Suite 400  
Hartford, Conn. 6106  
(860) 247-9226  
[JCJ.com](http://JCJ.com)

**Jensen Hughes**

Paul Orzeske, CEO  
3610 Commerce Drive, Suite 817  
Baltimore, Md. 21227

(410) 737-8677  
[www.jensenhughes.com](http://www.jensenhughes.com)

**JLG Architects**

Michelle Mongeon Allen, CEO  
124 N 3rd St  
Grand Forks, N.D. 58203  
(701) 746-1727  
[www.jlgarchitects.com](http://www.jlgarchitects.com)

**Johnson, Mirmiran & Thompson Inc.**

John A. Moeller, President  
40 Wight Avenue  
Hunt Valley, Md. 21030  
(410) 329-3100  
[www.jmt.com](http://www.jmt.com)

**Jones Edmunds & Associates Inc.**

Stanley F. Ferreira, Jr, President and CEO  
730 NE Waldo Road  
Gainesville, Fla. 32641  
(352) 377-5821  
[www.jonesedmunds.com](http://www.jonesedmunds.com)

**Jones|Carter**

Robert L. Aylward, President & CEO  
6330 West Loop South, Suite 150  
Bellaire, Texas 77401  
(713) 777-5337  
[www.jonescarter.com](http://www.jonescarter.com)

**Jordan & Skala Engineers**

Tim Milam, PE, President, Principal  
4275 Shackelford Road  
Norcross, Ga. 80093  
(770) 447-5547  
[jordanskala.com](http://jordanskala.com)

**J-U-B Engineers Inc.**

Lee E. Cammack, CEO  
250 S. Beechwood Ave., #201  
Boise, Idaho 83709  
(208) 376-7330  
[www.jub.com](http://www.jub.com)

**Kadrmass Lee & Jackson (KLJ)**

Dean Anagnost, Chief Executive Officer  
4585 Coleman St  
Bismarck, N.D. 58503  
(701) 355-8400  
[kljeng.com](http://kljeng.com)

**Albert Kahn Associates Inc.**

Alan H. Cobb, FAIA, President & CEO

7430 Second Avenue  
Detroit, Mich. 48202  
(313) 202-7000  
[www.albertkahn.com](http://www.albertkahn.com)

**Kapur & Associates**

Ramesh Kapur, President/CEO  
7711 N. Port Washington Road  
Milwaukee, Wis. 53217  
(414) 751-7200  
[kapurengineers.com](http://kapurengineers.com)

**KBR Inc.**

Stuart Bradie, President & CEO, Group President of E&C  
601 Jefferson St  
Houston, Texas 77002  
(713) 753-2000  
[www.kbr.com](http://www.kbr.com)

**KCI Technologies Inc.**

Terry Neimeyer, CEO/Chairman  
936 Ridgebrook Road  
Sparks, Md. 21152  
(410) 316-7800  
[www.kci.com](http://www.kci.com)

**Keith and Schnars PA**

Errol Kalayci, CEO  
6500 North Andrews Avenue  
Fort Lauderdale, Fla. 33309  
(954) 776-1616  
[www.ksfla.com](http://www.ksfla.com)

**Kendall/Heaton Associates Inc.**

John P. O'Connell, CEO  
3050 Post Oak Boulevard, Suite 1000  
Houston, Texas 77056  
(713) 877-1192  
[www.kendall-heaton.com](http://www.kendall-heaton.com)

**Kennedy/Jenks Consultants Inc.**

Keith London, President/CEO  
303 Second Street, Suite 300 South  
San Francisco, Calif. 94107  
(415) 243-2150  
<http://www.kennedyjenks.com/>

**Kiewit Corp.**

Bruce Grewcock, CEO  
1000 Kiewit Plaza  
Omaha, Neb. 68131  
(402) 342-2052  
[www.kiewit.com](http://www.kiewit.com)

**Kimley-Horn**

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John C. Atz, P.E., President/CEO  
421 Fayetteville Street, #600  
Raleigh, N.C. 27601  
(919) 677-2000  
[www.kimley-horn.com](http://www.kimley-horn.com)

**Ardurra - King**

None, Managing Directors  
4921 Memorial Hwy, STE 300  
Tampa, Fla. 33634  
(813) 880-8881  
[kingengineering.com](http://kingengineering.com)

**Kirksey Architecture**

John Kirksey, FAIA, Founder/Chairman  
6909 Portwest Drive  
Houston, Texas 77024  
(713) 850-9600  
[www.kirksey.com](http://www.kirksey.com)

**Kisinger Campo & Assoc Corp.**

Stephen McGucken, CEO  
201 N Franklin Street, Ste 400  
Tampa, Fla. 33602  
(813) 871-5331  
[www.kisingercampo.com](http://www.kisingercampo.com)

**Kittelson & Associates Inc.**

Mark Vandehey, Chief Executive  
Officer  
851 SW 6th Avenue, Suite 600  
Portland, Ore. 97204  
(503) 228-5230  
[www.kittelson.com](http://www.kittelson.com)

**Kleinfelder**

George Pierson, CEO  
550 West C Street; Suite 1200  
San Diego, Calif. 92101  
(619) 831-4600  
[www.kleinfelder.com](http://www.kleinfelder.com)

**KMB Design Group LLC**

Stephen A. Bray, P.E., President &  
CEO  
1800 Route 34, Suite 209  
Wall, N.J. 7719  
(732) 280-5623  
[www.kmbdg.com](http://www.kmbdg.com)

**Kohn Pedersen Fox Associates PC**

James von Klemperer, FAIA, President  
11 West 42nd Street  
New York, N.Y. 10036  
(212) 977-6500  
<http://www.kpf.com>

**KPFF Consulting Engineers**

John Gavan, President  
1601 5th Ave, Suite 1601  
Seattle, Wash. 98101  
(208) 622-5822  
[www.kpff.com](http://www.kpff.com)

**Krazan & Associates**

Dean Alexander, President  
215 W. Dakota Avenue  
Clovis, Calif. 93612  
(559) 348-2200  
*Krazan & Associates*

**KS Engineers PC**

Kamal Shahid, PE, President  
494 Broad Street, 4th Floor  
Newark, N.J. 07102-3217  
(973) 623-2999  
<http://www.kseng.com>

**KTGY Architecture + Planning**

Tricia Esser, Chief Executive Officer  
17911 Von Karman Ave., Ste. 200  
Irvine, Calif. 92614  
(888) 456-5849  
<http://ktgy.com/>

**KW Mission Critical Engineering**

Chris Kurkjian, Principal  
433 River Street, 7th Floor  
Troy, N.Y. 12180  
(518) 424-8311  
[www.kwmce.com](http://www.kwmce.com)

**Labella Associates DPC**

Sergio esteban, Chief Executive Officer  
300 State Street  
Rochester, N.Y. 14614  
(585) 454-6110  
[www.labellapc.com](http://www.labellapc.com)

**Lamp Rynearson & Associates**

Nancy Pridal, President  
14710 West Dodge Road  
Omaha, Neb. 68154  
(402) 496-2498  
[www.lra-inc.com](http://www.lra-inc.com)

**Landrum & Brown Inc.**

Mark A. Perryman, CEO/President  
11279 Cornell Park Drive  
Cincinnati, Ohio 45242  
(513) 530-5333  
[www.landrum-brown.com](http://www.landrum-brown.com)

**Langan**

Dave T. Gockel, President/CEO  
300 Kimball Drive, 4th Floor  
Parsippany, N.J. 7054  
(973) 560-4900  
[www.langan.com](http://www.langan.com)

**Lanier & Associates Consulting Engineers Inc.**

Gilbert Chatagnier, President  
4101 Magazine Street  
New Orleans, La. 70115  
(504) 895-0368  
[www.lanier-engineers.com](http://www.lanier-engineers.com)

**Larson Design Group Inc.**

Keith Kuzio, CEO  
1000 Commerce Park Drive  
Williamsport, Pa. 17701  
(570) 323-6603  
[www.larsondesigngroup.com](http://www.larsondesigngroup.com)

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Steve Smith, Chief Executive Officer  
319 N. 4th Street, Suite 1000  
St. Louis, Mo. 63102  
(314) 231-5700  
[www.thelawrencegroup.com](http://www.thelawrencegroup.com)

**Leach Wallace Associates Inc.**

Robert A. Banas, President  
6522 Meadowridge Road  
Elkridge, Md. 21075  
(410) 579-8100  
[www.leachwallace.com](http://www.leachwallace.com)

**Leidos**

Roger Krone, Chairman and Chief  
Executive Officer  
11951 Freedom Drive  
Reston, Va. 20190  
(314) 770-4043  
[leidos.com](http://leidos.com)

**Leighton Group Inc.**

TERRY BRENNAN, President  
17781 cowan  
irvine, Calif. 92614  
(949) 250-1421  
[www.leightongroup.com](http://www.leightongroup.com)

**LHB**

William D. Bennett, Chief Executive  
Officer  
21 West Superior Street, Suite 500



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[www.LHBcorp.com](http://www.LHBcorp.com)

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CEO  
345 California Street, Suite 2300  
San Francisco, Calif. 94104  
(415) 291-3700  
[www.tylin.com](http://www.tylin.com)

**Lionakis**

Don McAllister, President  
1919 Nineteenth Street  
Sacramento, Calif. 95811  
(916) 558-1900  
[www.lionakis.com](http://www.lionakis.com)

**The LiRo Group**

Luis M. Tormenta, PE, President and  
CEO  
3 Aerial Way  
Syosset, N.Y. 11791  
(516) 938-5476  
[www.liro.com](http://www.liro.com)

**Little**

Phil Kuttner, CEO  
5815 Westpark Dr.  
Charlotte, N.C. 28217  
(704) 525-6350  
[www.littleonline.com](http://www.littleonline.com)

**LJA Engineering Inc.**

Calvin T. Ladner, PE, President  
2929 Briarpark, Suite 600  
Houston, Texas 77042  
(713) 953-5200  
[www.lja.com](http://www.lja.com)

**LMN Architects**

Sam Miller, Managing Partner  
801 2nd Avenue  
Seattle, Wash. 98102  
(206) 682-3460  
[www.LMNarchitects.com](http://www.LMNarchitects.com)

**Lochmueller Group Inc.**

Michael R. Hinton, President & Chief  
Executive Officer  
6200 Vogel Road  
Evansville, Ind. 47715  
(812) 479-6200  
<http://lochgroup.com>

**H.W. Lochner Inc.**

Jeanne Cormier, President/CEO  
225 W. Washington St, Suite 1200  
Chicago, Ill. 60606  
(312) 372-7346  
[www.hwlochner.com](http://www.hwlochner.com)

**Looney Ricks Kiss**

Frank Ricks, President/CEO  
175 Toyota Plaza, Ste. 500  
Memphis, Tenn. 38103  
(901) 521-1440  
[www.lrk.com](http://www.lrk.com)

**Lord Aeck Sargent**

Joe Greco, President  
1175 Peachtree Street, NE, Suite 2400  
Atlanta, Ga. 30361  
(877) 929-1400  
[www.lordaecksargent.com](http://www.lordaecksargent.com)

**Loring Consulting Engineers Inc.**

Michael DesRochers, PE, LEED AP,  
Chairman / CEO  
21 Pennsylvania Plaza - 14th Floor  
New York, N.Y. 10001  
(212) 563-7400  
[www.loringengineers.com](http://www.loringengineers.com)

**LPA Inc**

Wendy Rogers, CEO  
5161 California Ave., Ste. 100  
Irvine, Calif. 92617  
(949) 261-1001  
[lpainc.com](http://lpainc.com)

**LS3P**

Thompson E. Penney, President / CEO  
205 1/2 King Street  
Charleston, S.C. 29401  
(843) 577-4444  
[www.LS3P.com](http://www.LS3P.com)

**M+W GROUP**

Rick Whitney, President and CEO  
201 Fuller Road, Suite 401  
Albany, N.Y. 12203  
(518) 266-3400  
[www.mwgroup.net](http://www.mwgroup.net)

**MacKay & Soms Civil Engineers Inc.**

James C. Ray, Jr., President  
5142 Franklin Dr. , Suite C  
Pleasanton, Calif. 94588  
(925) 416-1790

[www.msce.com](http://www.msce.com)

**Magnusson Klemencic Associates**

Ronald Klemencic, Chairman/CEO  
1301 Fifth Avenue, Ste 3200  
Seattle, Wash. 98101  
(206) 292-1200  
[www.mka.com](http://www.mka.com)

**Manhard Consulting**

Donald Manhard Jr., President  
900 Woodlands Parkway  
Vernon Hills, Ill. 60061  
(847) 634-5550  
[www.manhard.com](http://www.manhard.com)

**The Mannik & Smith Group Inc.**

Richard F. Bertz, President & CEO  
1800 Indian Wood Circle  
Maumee, Ohio 43537  
(419) 891-2222  
[www.manniksmithgroup.com](http://www.manniksmithgroup.com)

**Martin/Martin Inc.**

John A. Martin, Jr., Principal, Chief  
Executive Officer  
12499 West Colfax Avenue  
Lakewood, Colo. 80215  
(303) 431-6100  
[www.martinmartin.com](http://www.martinmartin.com)

**Maser Consulting PA**

Richard Maser, Chairman & CEO  
331 Newman Springs Road, Suite 203  
Red Bank, N.J. 7701  
(732) 383-1950  
[www.maserconsulting.com](http://www.maserconsulting.com)

**Matrix Technologies Inc.**

David Bishop, CEO  
1760 Indian Wood Circle  
Maumee, Ohio 43537  
(419) 897-7200  
[www.matrixti.com](http://www.matrixti.com)

**Mazzetti Inc.**

Walt Vernon, CEO  
220 Montgomery St, Suite 650  
San Francisco, Calif. 94104  
(415) 362-3266  
[www.mazzetti.com](http://www.mazzetti.com)

**MBH Architects**

Dennis M. Heath, Founding Principal  
960 Atlantic Ave  
Alameda, Calif. 94501

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(510) 865-8663  
www.mbharch.com

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James C. Wiggans, CEO  
Two Commerce Square, 2001 Market  
Street, 10th Floor  
Philadelphia, Pa. 19103  
(215) 592-4200  
www.mccormicktaylor.com

**McKim & Creed Inc.**

John T. Lucey, Jr., PE, President and  
CEO  
1730 Varsity Drive, Suite 500  
Raleigh, N.C. 27606  
(919) 233-8091  
www.mckimcreed.com

**McLaren Engineering Group**

Malcolm McLaren, President and CEO  
100 Snake Hill Rd  
West Nyack, N.Y. 10994  
(845) 353-6400  
www.mgmclaren.com

**McMahon Associates Inc.**

Denny Lamers, President  
1445 McMahon Drive  
Neenah, Wis. 54956  
(920) 751-4200  
www.mcmgrp.com

**McMillan Pazdan Smith**

Joe Pazdan/Brad Smith/Ron Smith,  
Owners/Principals  
400 Augusta Street, Suite 200  
Greenville, S.C. 29601  
(864) 242-2033  
www.mcmillanpazdansmith.com

**ME Engineers**

Michael Hart, CEO  
14143 Denver West Pkwy, Suite 300  
Golden, Colo. 80401  
(303) 421-6655  
www.me-engineers.com

**Mead & Hunt Inc.**

Rajan Sheth, C E O  
2440 Deming Way  
Middleton, Wis. 53562  
(608) 273-6380  
www.meadhunt.com

**Merrick & Co.**

David G. Huelskamp, Chairman and  
CEO

5970 Greenwood Plaza Blvd.  
Greenwood Village, Colo. 80111  
(303) 751-0741  
www.merrick.com

**Mesa Associates Inc.**

R.C. Savant, President/Owner  
480 Production Avenue  
Madison, Ala. 35758  
(256) 258-2100  
www.mesainc.com

**MG Engineering DPC**

Michael Gerazounis, PE, LEED AP,  
President/Managing Principal  
116 West 32nd Street  
New York, N.Y. 10001  
(212) 643-9055  
www.mgedpc.net

**MG2**

Mitch Smith, CEO and Chairman of the  
Board  
1101 Second Avenue  
Seattle, Wash. 98101  
(206) 962-6500  
mg2.com

**Middough Inc.**

Ronald R. Ledin, PE, Chairman & CEO  
1901 East 13th Street, Suite 400  
Cleveland, Ohio 44114  
(216) 367-6000  
www.middough.com

**The Miller Hull Partnership LLP**

Ron Rochon, Managing Partner  
71 Columbia, 6th floor  
Seattle, Wash. 98104  
(206) 682-6837  
www.millerhull.com

**Mission Critical Partners**

Kevin Murray, Chief Executive Officer  
690 Grays Woods Blvd.  
Port Matilda, Pa. 16780  
(888) 862-7911  
www.missioncriticalpartners.com

**Mithun**

David W. Goldber, President  
1201 Alaskan Way, STE 200  
Seattle, Wash. 98101  
(206) 623-3344

www.mithun.com

**Modjeski and Masters Inc.**

Michael F. Britt, PE, Chief Executive  
Officer  
100 Sterling Parkway, Ste 302  
Mechanicsburg, Pa. 17050  
(717) 790-9565  
www.modjeski.com

**Moffatt & Nichol**

Eric Nichol, President & Chief  
Executive Officer  
3780 Kilroy Airport Way #750  
Long Beach, Calif. 90804  
(562) 590-6500  
www.moffattnichol.com

**Moody Nolan**

Curtis J. Moody, FAIA, NCARB,  
LEED AP, CEO  
300 Spruce Street, Suite 300  
Columbus, Ohio 43215  
(614) 461-4664  
www.moodynolan.com

**Moore Engineering Inc.**

Jeffrey J. Volk, CEO & President  
925 - 10th Avenue E.  
West Fargo, N.D. 58078  
(701) 282-4692  
www.mooreengineeringinc.com

**Morrison Hershfield**

Anthony Karakatsanis, President and  
CEO  
1455 Lincoln Parkway, Suite 500  
Atlanta, Ga. 30346  
(770) 379-8500  
www.morrisonhershfield.com

**Morrison Maierle Inc**

Scott B. Murphy, President/CEO  
1 Engineering Place  
Helena, Mont. 59602  
(406) 442-3050  
www.m-m.net

**Moseley Architects**

Stewart Roberson, President  
3200 Norfolk Street  
Richmond, Va. 23230  
(804) 794-7555  
www.moseleyarchitects.com

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Nicholas M. DeNichilo, PE, President  
and CEO  
111 Wood Avenue South  
Iselin, N.J. 08830-4112  
(973) 379-3400  
[mottmac.com](http://mottmac.com)

**ms consultants Inc.**  
THOMAS E. MOSURE, PRESIDNET,  
CEO  
2221 Schrock Road  
Columbus, Ohio 43229-1547  
(614) 898-7100  
[www.msconsultants.com](http://www.msconsultants.com)

**MSA Professional Services Inc.**  
Gilbert A Hantzsch, CEO  
1230 South Boulevard  
Baraboo, Wis. 53913  
(608) 356-2771  
[www.msa-ps.com](http://www.msa-ps.com)

**Mueser Rutledge Consulting  
Engineers**  
Peter W. Deming, Partner  
14 Penn Plaza, 225 West 34Th Street,  
6th Floor  
New York, N.Y. 10122  
(917) 339-9300  
[www.mrce.com](http://www.mrce.com)

**Murraysmith Inc.**  
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888 SW 5th Ave., Suite 1170  
Portland, Ore. 97204  
(503) 225-9010  
[www.murraysmith.us](http://www.murraysmith.us)

**NAC Architecture**  
Dana Harbaugh, President & CEO  
1203 W. Riverside  
Spokane, Wash. 99201  
(509) 838-8240  
<http://www.nacarchitecture.com/>

**NBBJ**  
Steve McConnell, FAIA, Managing  
Partner  
223 Yale Ave North  
Seattle, Wash. 98109  
(206) 223-5555  
[www.nbbj.com](http://www.nbbj.com)

**Neel-Schaffer Inc.**  
W. Hibbett Neel, PE, President and  
CEO

125 South Pearl Street, Suite 1100  
Jackson, Miss. 39201  
(601) 948-3071  
[www.neel-schaffer.com](http://www.neel-schaffer.com)

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John Ozzie Nelson Jr.; Jim Tippman,  
Chairman, Co-CEO; Co-CEO  
1201 Marquette Avenue South  
Minneapolis, Minn. 55403  
(612) 822-1211  
[www.nelsononline.com](http://www.nelsononline.com)

**Waldemar S. Nelson and Co. Inc.**  
Charles Nelson, Chairman  
1200 St. Charles Ave.  
New Orleans, La. 70130  
(504) 523-5281  
[www.wsnelson.com](http://www.wsnelson.com)

**Ninyo & Moore Geotech and  
Environ. Sciences Conslts.**  
Avram Ninyo, Principal Engineer  
5710 Ruffin Road  
San Diego, Calif. 92123  
(858) 576-1000  
[www.ninyoandmoore.com](http://www.ninyoandmoore.com)

**NOVA Engineering & Environmental  
LLC**  
Randall L. Bagwell, President & CEO  
3900 Kennesaw 75 Parkway, Suite 100  
Kennesaw, Ga. 30144  
(770) 425-0777  
[www.usanova.com](http://www.usanova.com)

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Dickerson Wright, Chairman, Chief  
Executive Officer  
200 South Park Road, Suite 350  
Hollywood, Florida 33021  
(954) 495-2112  
[www.nv5.com](http://www.nv5.com)

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James A. Fox, Chief Executive Officer  
333 W. Washington St.  
Syracuse, N.Y. 13202  
(315) 956-6100  
[www.obg.com](http://www.obg.com)

**OHM Advisors**  
John J. Hiltz, PE, President  
34000 Plymouth Rd.  
Livonia, Mich. 48150  
(734) 522-6711

[www.ohm-advisors.com](http://www.ohm-advisors.com)

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Brad Strittmatter, Chief Executive  
Officer  
601 P Street  
Lincoln, Neb. 68508  
(402) 474-6311  
[www.olssonassociates.com](http://www.olssonassociates.com)

**On-Board Engineering**  
Robert J. Wilson, CEO  
50 Millstone Road, Building 300, Suite  
110  
East Windsor, N.J. 8520  
(609) 945-8000  
[www.onboardusa.com](http://www.onboardusa.com)

**OPN Architects**  
Daniel J. Thies, Principal  
200 Fifth Ave SE, Suite 201  
Cedar Rapids, Iowa 52403  
(319) 363-6018  
[opnarchitects.com](http://opnarchitects.com)

**Orbital Engineering Inc.**  
Robert J. Lewis, CEO  
1344 Fifth Ave.  
Pittsburgh, Pa. 15219  
(412) 261-9100  
[www.orbitalengr.com](http://www.orbitalengr.com)

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Jim Hamann, President & CEO  
808 SW Third Ave, Suite 300  
Portland, Ore. 97204  
(503) 287-6825  
[www.otak.com](http://www.otak.com)

**P2S Inc.**  
Kevin L. Peterson, President / CEO  
5000 E. Spring Street, 8th Floor  
Long Beach, Calif. 90815  
(562) 497-2999  
<http://www.p2sinc.com/>

**Page Southerland Page Inc.**  
James Wright, Senior Principal  
1615 M Street NW, Suite 700  
Washington, D.C. 20036  
(202) 909-4900  
[www.pagethink.com](http://www.pagethink.com)

**Pape-Dawson Engineers Inc.**  
Gene Dawson, Jr., President  
2000 NW Loop 410

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(210) 375-9000  
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Jeff Peacock, PE, President and CEO  
719 2nd Avenue, Suite 200  
Seattle, Wash. 98104  
(206) 394-3700  
[www.parametrix.com](http://www.parametrix.com)

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Joseph R. Rapier, PE, President/CEO  
4222 85th Street  
Lubbock, Texas 79423  
(806) 473-2200  
[www.team-psc.com](http://www.team-psc.com)

**Parsons**

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CEO  
100 West Walnut Street  
Pasadena, Calif. 91124  
(626) 440-2000  
[www.parsons.com](http://www.parsons.com)

**Partner Assessment Corp. dba  
Partner Engineering and Science  
Inc.**

Joseph Derhake, Chief Executive  
Officer  
2154 Torrance Blvd. Suite 200  
Torrance, Calif. 90501  
(732) 876-7000  
[www.partneresi.com](http://www.partneresi.com)

**Patrick Engineering Inc.**

Daniel P. Dietzler, CEO  
55 E. Monroe Street, Suite 3450  
Chicago, Ill. 60603  
(800) 799-7050  
[www.patrickco.com](http://www.patrickco.com)

**PBK**

Dan Boggio, AIA LEED AP BD+C,  
President & CEO  
11 Greenway Plaza, 22nd Floor  
Houston, Texas 77046  
(800) 938-7272  
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Guy Neal, PE, President / CEO  
4412 SW Corbett  
Portland, Ore. 97239  
(503) 248-1939

[www.pbsusa.com](http://www.pbsusa.com)

**PCI Skanska**

Denny Quinn, Executive Vice President  
401 NW First Street  
Evansville, Ind. 47708  
(812) 425-4264  
[usa.skanska.com](http://usa.skanska.com)

**Pennoni**

Anthony Bartolomeo, President and  
CEO  
1900 Market Street Suite 300  
Philadelphia, Pa. 19103  
(215) 222-3000  
[www.pennoni.com](http://www.pennoni.com)

**Perkins Eastman**

L. Bradford Perkins, Chairman  
115 Fifth Avenue  
New York, N.Y. 10003  
(212) 353-7200  
[www.perkinseastman.com](http://www.perkinseastman.com)

**Perkins+Will**

Phil Harrison, Chief Executive Officer  
The Wrigley Building 410 North  
Michigan Avenue Suite 1600  
Chicago, Ill. 10003  
(312) 755-0770  
[www.perkinswill.com](http://www.perkinswill.com)

**PGAL**

JEFF GERBER, AIA, CEO  
3131 BRIARPARK DRIVE, SUITE  
200  
Houston, Texas 77042  
(713) 622-1444  
[WWW.PGAL.COM](http://WWW.PGAL.COM)

**Pond**

Anthony Parker, PE, President & CEO  
3500 Parkway Lane - Suite 500  
Peachtree Corners, Ga. 30092  
(678) 336-7740  
[www.pondco.com](http://www.pondco.com)

**Populous**

Earl Santee, Managing Director  
4800 Main Street, Suite 300  
Kansas City, Mo. 64112  
(816) 221-1500  
[www.populous.com](http://www.populous.com)

**POWER Engineers Inc.**

Bret Moffett, President and CEO

3940 Glenbrook Drive  
Hailey, Idaho 83333  
(208) 788-3456  
[www.powereng.com](http://www.powereng.com)

**PRIME AE Group Inc.**

Kumar Buvanendaran, President and  
Chief Executive Officer  
5521 Research Park Drive, Suite 300  
Baltimore, Md. 21228  
(410) 654-3790  
[www.primeeng.com](http://www.primeeng.com)

**Primera Engineers Ltd.**

Erin M. Inman, President & CEO  
100 South Wacker Drive, Suite 700  
Chicago, Ill. 60606  
(312) 606-0910  
[www.PrimeraEng.com](http://www.PrimeraEng.com)

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David King, President/Chief Executive  
Officer  
2100 McKinney Ave Suite 1500  
Dallas, Texas 75201  
(949) 598-9242  
[www.prim.com](http://www.prim.com)

**Primus Builders Inc.**

Richard O'Connell, CEO  
8294 Highway 92, Suite 210  
Woodstock, Ga. 30189  
(770) 928-7120  
[www.primusblders.com](http://www.primusblders.com)

**Professional Engineering Consultants  
PA**

Rodney R. Young, President  
303 South Topeka  
Wichita, Kan. 67202  
(316) 262-2691  
[www.pecl.com](http://www.pecl.com)

**PS&S**

John Sartor, PE, President and CEO  
67A Mountain Blvd Ext  
Warren, N.J. 7059  
(732) 560-9700  
[www.psands.com](http://www.psands.com)

**Psomas**

Ryan McLean, CEO  
555 South Flower St, Ste 4300  
Los Angeles, Calif. 90071  
(213) 223-1400  
[www.psomas.com](http://www.psomas.com)

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Larry Barr, President  
2121 Ward Place, NW 4th Floor  
Washington, D.C. 20037  
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[www.quinnevans.com](http://www.quinnevans.com)

**Raba Kistner Inc.**

Gary W. Raba, Chairman & CEO  
12821 W. Golden Lane  
San Antonio, Texas 78256  
(210) 699-9090  
[www.rkci.com](http://www.rkci.com)

**RATIO Architects Inc.**

William A. Browne, Jr., FAIA, LEED  
AP, Principal/President  
101 South Pennsylvania Street  
Indianapolis, Ind. 46204  
(317) 633-4040  
[www.RATIOdesign.com](http://www.RATIOdesign.com)

**RBA Builders Inc.**

Robert Anderson, President and CEO  
17601 Sampson Lane  
Huntington Beach, Calif. 92647  
7148959000  
[www.rbabuildersinc.com](http://www.rbabuildersinc.com)

**RCM Technologies Inc.**

Rocco Campanelli, President & CEO  
2500 McClellan Avenue, Suite 350  
Pennsauken, N.J. 8109  
(856) 356-4500  
[www.rcmt.com](http://www.rcmt.com)

**RDG Planning & Design**

Philip A. Hodgkin, AIA, Principal  
301 Grand Avenue  
Des Moines, Iowa 50309  
(515) 288-3141  
[www.rdgusa.com](http://www.rdgusa.com)

**Rebel Design+Group**

Douglas DeBoer, CEO  
2554 Lincoln Blvd  
Marina Del Rey, Calif. 90292  
(800) 927-3235  
[www.rebeldesign.com](http://www.rebeldesign.com)

**Remington & Vernick Engineers**

Edward Vernick, President, CEO  
232 Kings Highway East  
Haddonfield, N.J. 8033  
(856) 795-9595

[www.rve.com](http://www.rve.com)

**Rettew Associates Inc.**

Mark Lauriello, President & CEO  
3020 Columbia Avenue  
Lancaster, Pa. 17603  
(800) 738-8395  
[www.rettew.com](http://www.rettew.com)

**RJN Group Inc.**

Jeffrey Plymale, President and CEO  
200 West Front Street  
Wheaton, Ill. 60187  
(630) 682-4700  
[www.rjn.com](http://www.rjn.com)

**RK&K**

Thomas E. Mohler, Partner  
700 East Pratt Street  
Baltimore, Md. 21202  
(410) 728-2900  
[www.rkk.com](http://www.rkk.com)

**RMA Group**

Ed Lyon, President  
12130 Santa Margarita  
Rancho Cucamonga, Calif. 91730  
(909) 989-1751  
[www.rmacompanies.com](http://www.rmacompanies.com)

**RMF Engineering, Inc.**

Duane S. Pinnix, President & CEO  
5520 Research Park Drive  
Baltimore, Md. 21228  
(410) 576-0505  
[www.rmfc.com](http://www.rmfc.com)

**Ross & Baruzzini Inc.**

William H. Overturf, III, President  
6 South Old Orchard  
St. Louis, Mo. 63119  
(314) 918-8383  
[www.rossbar.com](http://www.rossbar.com)

**RPS Group Inc.**

Peter Fearn, President and CEO  
1160 Dairy Ashford, Ste. 500  
Houston, Texas 77079  
(281) 589-7257  
[rpsgroup.com/usa](http://rpsgroup.com/usa)

**RS&H Inc.**

David T. Sweeney, President/Chief  
Executive Officer  
10748 Deerwood Park Boulevard S.  
Jacksonville, Fla. 32256

(904) 256-2500

[www.rsandh.com](http://www.rsandh.com)

**RSP Architects**

David Norback, President  
1220 Marshall Street NE  
Minneapolis, Minn. 55413  
(612) 677-7100  
[rsparch.com](http://rsparch.com)

**Rudolph Libbe Cos. Inc.**

William D. Rudolph, Chairman  
6494 Latcha Road  
Walbridge, Ohio 43645  
(419) 241-5000  
[www.rlgbuilds.com](http://www.rlgbuilds.com)

**S&B Engineers and Constructors  
Ltd. & affil.**

Brook Brookshire, Chief Executive  
Officer  
P.O.Box 266245  
Houston, Texas 77207  
(713) 845-5483  
[www.sbec.com](http://www.sbec.com)

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Randall A. Neuhaus, PE, President and  
Chief Executive Officer  
2724 Discovery Drive, Suite 120  
Raleigh, N.C. 27616  
(919) 872-2660  
[www.smeinc.com](http://www.smeinc.com)

**The S/L/A/M Collaborative Inc.**

Robert F. Pulito, AIA, President  
80 Glastonbury Boulevard  
Glastonbury, Conn. 6033  
(860) 657-8077  
[www.slamcoll.com](http://www.slamcoll.com)

**SAI Consulting Engineers Inc.**

Victor Bertolina, PE, President  
1350 Penn Avenue, Suite 300  
Pittsburgh, Pa. 15222  
(412) 392-8750  
[www.saiengr.com](http://www.saiengr.com)

**Salas O'Brien**

Darin Anderson, CEO  
3700 South Susan St. Suite 150  
Santa Ana, Calif. 92704  
(408) 282-1500  
[www.salasobrien.com](http://www.salasobrien.com)

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and President  
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100  
Austin, Texas 78735  
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[www.sam.biz](http://www.sam.biz)

**SANDIS Civil Engineers Surveyors  
Planners**

Ken Olcott, President, CEO  
1700 S. Winchester Blvd., Suite 200  
Campbell, Calif. 95008  
(408) 636-0900  
[www.sandis.net](http://www.sandis.net)

**Sargent & Lundy LLC**

Thomas R. White, Chairman, President  
& CEO  
55 East Monroe Street  
Chicago, Ill. 60603  
(312) 269-2000  
[www.sargentlundy.com](http://www.sargentlundy.com)

**Sasaki**

James Miner, Managing Principal  
64 Pleasant St  
Watertown, Mass. 02472-2316  
(617) 926-3300  
[www.sasaki.com](http://www.sasaki.com)

**Saulsbury Industries Inc.**

Rick Graves, Chief Executive Officer  
2951 E Interstate 20  
Odessa, Texas 79766  
(432) 366-3686  
[www.saulsbury.com](http://www.saulsbury.com)

**Schnabel Engineering Inc.**

Walter Rabe, PE, President, CEO  
9800 JEB Stuart Parkway Suite 200  
Glen Allen, Va. 23059  
(804) 264-3222  
[www.schnabel-eng.com](http://www.schnabel-eng.com)

**SCS Engineers**

James J. Walsh, P.E., President/CEO  
3900 Kiilroy Airport Way, Ste. 100  
Long Beach, Calif. 90806  
(800) 869-0235  
[www.scsengineers.com](http://www.scsengineers.com)

**SEPI Engineering and Construction  
Inc.**

Sepideh Saidi, PE, President and CEO  
1025 Wade Avenue

Raleigh, N.C. 27605  
(919) 789-9977  
[www.sepiengineering.com](http://www.sepiengineering.com)

**SGA Design Group**

Christopher B. Goble, President & CEO  
1437 S. Boulder Ave., Suite 550  
Tulsa, Okla. 74119  
(918) 587-8600  
[www.sgadesigngroup.com](http://www.sgadesigngroup.com)

**Shafer, Kline & Warren**

Ronald D. Petering, PE, PTOE,  
President and CEO  
11250 Corporate Avenue  
Lenexa, Kan. 66219  
(913) 888-7800  
[www.skw-inc.com](http://www.skw-inc.com)

**Shalom Baranes Associates PC**

Shalom Baranes, President  
1010 Wisconsin Avenue NW, 900  
Washington, D.C. 20007  
(202) 342-2200  
[www.sbaranes.com](http://www.sbaranes.com)

**Shannon & Wilson Inc.**

Gerard Buechel, President  
400 N 34th Street, Suite 100  
Seattle, Wash. 98103  
(206) 632-8020  
[www.shannonwilson.com](http://www.shannonwilson.com)

**Sheehan Nagle Hartray Architects  
Ltd.**

Neil Sheehan, Principal  
30 W. Monroe, Suite 900  
Chicago, Ill. 60603  
(312) 633-2900  
[www.sheehannaglehartray.com](http://www.sheehannaglehartray.com)

**Sheladia Associates Inc.**

Manish Kothari, CEO  
15825 Shady Grove Rd.  
Rockville, Md. 20850  
(301) 590-3939  
[www.sheladia.com](http://www.sheladia.com)

**Shepley Bulfinch**

Carole Wedge, FAIA, President  
2 Seaport Lane  
Boston, Mass. 2210  
(617) 423-1700  
[www.shepleybulfinch.com](http://www.shepleybulfinch.com)

**Shive-Hattery**

James Lee, President  
316 Second Street SE, Suite 500  
Cedar Rapids, Iowa 52401  
(800) 798-0313  
[www.shive-hattery.com](http://www.shive-hattery.com)

**Short Elliott Hendrickson**

Sam L. Claassen, CEO/President  
3535 Vadnais Center Drive  
Saint Paul, Minn. 55110  
(651) 490-2000  
[www.sehinc.com](http://www.sehinc.com)

**Simpson Gumpertz & Heger**

Charles Russo, Chief Executive Officer  
and Senior Principal  
41 Seyon Street, Building 1, Suite 500  
Waltham, Mass. 2453  
(781) 907-9000  
[www.sgh.com](http://www.sgh.com)

**Skidmore, Owings & Merrill LLP**

Gary Haney, William Baker, Carrie  
Byles, Partners, Executive  
Committee  
14 Wall Street  
New York, N.Y. 10005  
(212) 298-9300  
[www.som.com](http://www.som.com)

**SME**

Mark K. Kramer, PE, CEO/President  
43980 Plymouth Oaks Blvd  
Plymouth, Mich. 48170  
(734) 454-9900  
[www.sme-usa.com](http://www.sme-usa.com)

**Smith Seckman Reid Inc.**

Steve Lane, PE, DEE, CEO & President  
2995 Sidco Drive  
Nashville, Tenn. 37204  
(615) 383-1113  
[www.ssr-inc.com](http://www.ssr-inc.com)

**Adrian Smith + Gordon Gill  
Architecture**

Adrian Smith, Partner, Chief Executive  
Office  
111 W. Monroe, Suite 2300  
Chicago, Ill. 60603  
(312) 920-1888  
<http://smithgill.com>

**SmithGroupJJR**

Mike Medici, President, Managing  
Partner

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500 Griswold Street, Suite 1700  
 Detroit, Mich. 48226  
 (313) 983-3600  
[www.smithgroupjir.com](http://www.smithgroupjir.com)

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Neil Bruce, President and Chief  
 Executive Officer  
 19015 North Creek Parkway, Suite 300  
 Bothell, Wash. 98011-8029  
 (207) 220-9570  
[www.snclavalin.com](http://www.snclavalin.com)

**Solomon Cordwell Buenz**

John C. Lahey, Chairman and Principal  
 625 N. Michigan Ave., Suite 800  
 Chicago, Ill. 60611  
 (312) 896-1100  
[www.scb.com](http://www.scb.com)

**Miller Engineers Inc. dba Souder,  
 Miller & Associates**

Peter G. Fant, President/CEO  
 2904 Rodeo Park Drive East, Building  
 100  
 Santa Fe, N.  
 N.M. 87505  
 (505) 473-9211  
[www.soudermiller.com](http://www.soudermiller.com)

**SPEC Services Inc.**

Kim R. Henry, President/CEO  
 10540 Talbert Ave., Suite 100 East  
 Fountain Valley, Calif. 92708  
 (714) 963-8077  
[specservices.com](http://specservices.com)

**SRF Consulting Group Inc.**

Dave Montebello, CEO  
 One Carlson Parkway, Suite 150  
 Plymouth, Minn. 55447  
 (763) 475-0010  
[www.srfconsulting.com](http://www.srfconsulting.com)

**SSEO Group**

Harold Robert Howell Jr. (Bob), CEO  
 1001 Madison Avenue  
 Toledo, Ohio 43604  
 (419) 255-3830  
[www.ssoe.com](http://www.ssoe.com)

**Stahl Sheaffer Engineering LLC**

Jeffery M. Sheaffer, P.E., Principal  
 301 Science Park Road, Suite 333  
 State College, Pa. 16803  
 (814) 689-1562

[www.sse-llc.com](http://www.sse-llc.com)

**Stanley Consultants Inc.**

Kate Harris, President & CEO  
 225 Iowa Avenue  
 Muscatine, Iowa 52761  
 (563) 264-6400  
[www.stanleyconsultants.com](http://www.stanleyconsultants.com)

**Stantec Inc.**

Gord Johnston, President and CEO  
 38 Technology Dr.  
 Irvine, Calif. 92618-5312  
 (949) 923-6000  
[www.stantec.com](http://www.stantec.com)

**Steelman Partners**

Paul Steelman, CEO  
 3330 W DESERT INN RD  
 Las Vegas, Nev. 89102-8441  
 (702) 873-0221  
[www.steelmanpartners.com](http://www.steelmanpartners.com)

**Steinberg Hart**

David Hart, AIA, NCARB, LEED AP,  
 President & CEO  
 125 S. Market Street, Suite 110  
 San Jose, Calif. 95113  
 (408) 295-5446  
[www.steinberghart.com](http://www.steinberghart.com)

**Stellar**

Ron Foster Jr., CEO  
 2900 Hartley Rd.  
 Jacksonville, Fla. 32257  
 (904) 260-2900  
[www.stellar.net](http://www.stellar.net)

**Robert A.M. Stern Architects**

N/A, N/A  
 One Park Avenue  
 New York, N.Y. 10016  
 (212) 967-5100  
[www.ramsa.com](http://www.ramsa.com)

**STG Design**

Jim Susman, FAIA, Principal and CEO  
 828 West 6th Street, Suite 300  
 Austin, Texas 78703  
 (512) 899-3500  
[www.stgdesign.com](http://www.stgdesign.com)

**Strand Associates Inc.**

Philip E. Budde, PE., CEO and  
 President  
 910 West Wingra Drive

Madison, Wis. 53715  
 (608) 251-4843  
[www.strand.com](http://www.strand.com)

**STUDIOS Architecture**

Todd C. DeGarmo, FAIA, Principal,  
 Chief Executive Officer  
 1625 M Street NW  
 Washington, D.C. 20036  
 (202) 736-5900  
<http://www.studios.com/>

**STV Group Inc.**

Dominick M. Servedio, P.E., Executive  
 Chairman  
 205 West Welsh Drive  
 Douglassville, Pa. 19518  
 (212) 777-4400  
[www.stvinc.com](http://www.stvinc.com)

**Sunrise Engineering Inc.**

Mark Huntsman, President and Chief  
 Executive Officer  
 25 East 500 North  
 Fillmore, Utah 84631  
 (435) 743-6151  
[www.sunrise-eng.com](http://www.sunrise-eng.com)

**Superior Engineering, LLC**

William C. Hills, CEO  
 2345 167th Street  
 Hammond, Ind. 46323  
 (219) 844-7030  
[www.superiorengineering.com](http://www.superiorengineering.com)

**SWCA Environmental Consultants**

Joseph J Fluder III, Chief Executive  
 Officer  
 20 E. Thomas Road, Suite 1700  
 Phoenix, Ariz. 85012  
 (602) 274-3831  
[www.swca.com](http://www.swca.com)

**Syska Hennessy Group**

Cyrus Izzo, PE and Gary Brennen, PE,  
 Co-Presidents  
 1515 Broadway  
 New York, N.Y. 10036  
 (212) 556-3300  
[www.syska.com](http://www.syska.com)

**T&M Associates**

Gary C. Dahms, PE, President & CEO  
 11 Tindall Road  
 Middletown, N.J. 7748  
 (732) 671-6400

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Donald A. Benvie, P.E., President & CEO

118-35 Queens Blvd., Suite 1000  
Forest Hills, N.Y. 11375  
(800) 829-6531

*www.tectonicengineering.com*

**Terracon Consultants Inc.**

David R. Gaboury, P.E., Chief Executive Officer and President

10841 South Ridgeview Road  
Olathe, Kan. 66061  
(800) 593-7777

*www.terracon.com*

**Tetra Tech Inc.**

Dan L. Batrack, CEO  
Tetra Tech, Inc., 3475 E. Foothill Blvd  
Pasadena, Calif. 91107

(626) 351-4664

*www.tetrattech.com*

**ThermalTech Engineering Inc.**

Jeffrey Celuch, President  
3960 Red Bank Rd., Ste 250  
Cincinnati, Ohio 45227

(513) 561-2271

*www.thermaltech.com*

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Michael J. Wiercinski, PE, President  
800 King Farm Blvd., 4th Floor  
Rockville, Md. 20850

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*www.amtengineering.com*

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John Wimberly, PE, President  
2950 Kraft Drive  
Nashville, Tenn. 37204

(615) 346-3400

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John H. Baker III, CEO, President  
2970 Cottage Hill Road, Suite 190  
Mobile, Ala. 36606

(251) 666-2443

*www.thompsonengineering.com*

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Thomas Z. Scarangelo, Chairman and CEO

51 Madison Ave  
New York, N.Y. 10010  
(917) 661-7800

*www.thorntontomasetti.com*

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Chad Riley, PE, Chief Executive Officer

600 White Oaks Blvd.  
Bridgeport, W.Va. 26330  
(304) 624-4108

*www.thethrashergroup.com*

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David E. Pinsky, President  
53 Southampton Road  
Westfield, Mass. 1085

(413) 562-1600

*www.tighebond.com*

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Brian Bortell, PE, President and CEO  
1001 Boulders Parkway, Suite 300  
Richmond, Va. 23225

(804) 200-6500

*www.timmons.com*

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Thomas S. Stoneburner, Chief Executive Officer/President

444 Cedar Street, Suite 1500  
Saint Paul, Minn. 55101

(651) 292-4400

*www.tkda.com*

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Michael P Sheerin, CEO  
255 South Orange Avenue, Suite 1600  
Orlando, Fla. 32801

(407) 841-9050

*www.tlc-engineers.com*

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Daniel O. Wong, PhD, PE, President, Owner, CEO

10710 S. Sam Houston Parkway West #100

Houston, Texas 77031  
(713) 722-7064

*www.tweinc.com*

**Tower Engineering Professionals**

Andrew Haldane, Co-founder & CEO

326 Tryon Road  
Raleigh, N.C. 27603  
(919) 661-6351

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James Phillips, CEO; Managing Executive

132 W 31st Street, 5th Floor  
New York, N.Y. 10001

(212) 768-0800

*http://www.tpgarchitecture.com/*

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150 4th Avenue North, Suite 1200  
Nashville, Tenn. 37219

(615) 988-8960

*www.transcore.com*

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Richard Morsches, PE, Chief Executive Officer

2400 Pershing Rd, Ste 400  
Kansas City, Mo. 64108

(816) 329-8700

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Wannalancit Mills, 650 Suffolk Street  
Lowell, Mass. 1854

(978) 970-5600

*www.trcsolutions.com*

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Dan Rowe, President  
1755 Blake Street #400  
Denver, Colo. 80203

(785) 842-4858

*www.treanorhl.com*

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1230 Peachtree Street NE Suite 2700  
Atlanta, Ga. 30309

(404) 888-6600

*www.tvdesign.com*

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Robert M. Ryan, Chief Executive Officer

2883 East Spring Street, Suite 300  
Long Beach, Calif. 90806

(562) 426-3355

*www.twininginc.com*



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Doug Jaeger, President & CEO  
3350 38th Ave S  
Fargo, N.D. 58104  
(701) 280-8500  
[www.ulteig.com](http://www.ulteig.com)

**United Consulting**

William Hall, Vice President  
1625 N. Post Rd.  
Indianapolis, Ind. 46219  
(317) 895-2585  
*United Consulting*

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Seymour Sy Israel, CEO  
3532 Maggie Boulevard  
Orlando, Fla. 32811  
(407) 423-0504  
[www.universalengineering.com](http://www.universalengineering.com)

**UniversalPegasus International**

Thomas Davison, President  
4848 Loop Central Drive  
Houston, Texas 77081  
(713) 425-6000  
[www.universalpegasus.com](http://www.universalpegasus.com)

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Kenneth R. Fulmer, President & CEO  
530 Walnut Street, 7th Floor  
Philadelphia, Pa. 19106  
(215) 922-8080  
[www.urbanengineers.com](http://www.urbanengineers.com)

**V3 Cos. Ltd.**

Robin L. Petroelje, President  
7325 Janes Ave.  
Woodridge, Ill. 60517  
(630) 724-9200  
[www.v3co.com](http://www.v3co.com)

**Vanderweil Engineers**

Eli Sherman, President/CEO  
274 Summer Street  
Boston, Mass. 2210  
(617) 423-7423  
[www.vanderweil.com](http://www.vanderweil.com)

**VCBO Architecture**

Brent Tippets, President and Managing  
Principal  
524 South 600 East  
Salt Lake City, Utah 84102  
(801) 575-8800

[www.vcbo.com](http://www.vcbo.com)

**VHB**

Michael J. Carragher, President & CEO  
101 Walnut St  
Watertown, Mass. 2471  
(617) 924-1770  
[www.vhb.com](http://www.vhb.com)

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Sloan Harris, Todd Lien, and Leesa  
Vardeman, Partners  
2821 W. 7th Street, Suite 300  
Fort Worth, Texas 76107  
(817) 633-1600  
[www.vlkarchitects.com](http://www.vlkarchitects.com)

**Vocon**

Debbie Donley, Principal  
3142 Prospect Avenue  
Cleveland, Ohio 44115  
(216) 588-0800  
[www.vocon.com](http://www.vocon.com)

**Volkert Inc.**

Jerry Stump, CEO  
11 North Water Street, Suite 18290  
Mobile, Ala. 36602  
(251) 342-1070  
[www.volkert.com](http://www.volkert.com)

**Wade Trim**

Andrew McCune, PE, CEO/President  
25251 Northline Road  
Taylor, Mich. 48180  
(313) 961-3650  
[www.wadetrim.com](http://www.wadetrim.com)

**Walker Consultants**

John K. Bushman, PE, CEO  
151 South Rose Street Suite 800  
Kalamazoo, Mich. 49007  
(800) 860-1579  
[www.walkerconsultants.com](http://www.walkerconsultants.com)

**Wallace Montgomery & Associates  
LLP**

Stuart B. Taub, Partner  
10150 York Road Suite 200  
Hunt Valley, Md. 21030  
(410) 494-9093  
[www.wallacemontgomery.com](http://www.wallacemontgomery.com)

**Walter P Moore**

Dilip Choudhuri, P.E., President &  
CEO

1301 McKinney, Ste 1100  
Houston, Texas 77010  
(800) 364-7300  
[www.walterpmoore.com](http://www.walterpmoore.com)

**Wantman Group Inc. dba WGI**

David Wantman, PE, CEO & President  
2035 Vista Parkway  
West Palm Beach, Fla. 33411  
(561) 687-2220  
[www.wginc.com](http://www.wginc.com)

**Ware Malcomb**

Lawrence R. Armstrong, CEO  
10 Edelman  
Irvine, Calif. 92618  
(949) 660-9128  
[www.waremalcomb.com](http://www.waremalcomb.com)

**WATG**

ANthony Mallows, President + CEO  
300 Spectrum Center Drive, Suite 500  
Irvine, Calif. 92618  
(949) 574-8500  
[www.watg.com](http://www.watg.com)

**WD Partners**

Chris Doerschlag, Chief Executive  
Officer  
7007 Discovery Blvd  
Dublin, Ohio 43017  
(888) 335-0014  
[www.wdpartners.com](http://www.wdpartners.com)

**WDG Architecture PLLC**

Jeff Morris, Managing Principal  
1025 Connecticut Avenue NW, Suite  
300  
Washington, D.C. 20036  
(202) 857-8300  
[www.wdgarch.com](http://www.wdgarch.com)

**Wenck**

Rodney Ambrosie, Chief Executive  
Officer  
7500 Olson Memorial Highway Suite  
300  
Golden Valley, Minn. 55427  
(763) 252-6800  
[www.wenck.com](http://www.wenck.com)

**Wendel**

Stewart C. Haney, PE, President/CEO  
375 Essjay Road, Suite 200  
Williamsville, N.Y. 14221  
(716) 688-0766

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[www.wendelcompanies.com](http://www.wendelcompanies.com)

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Michael J. Scipione, PE, President and  
CEO

5 Centennial Drive  
Peabody, Mass. 1960  
(978) 532-1900

[www.westonandsampson.com](http://www.westonandsampson.com)

**Westwood Professional Services**

Paul Greenhagen, CEO/President  
12701 Whitewater Dr, Ste 300  
Minnetonka, Minn. 55343  
(952) 937-5150

[www.westwoodps.com](http://www.westwoodps.com)

**Whitman, Requardt and Associates  
LLP**

Joseph Makar, PE, Partner  
801 South Caroline Street  
Baltimore, Md. 21231  
(410) 235-3450

[www.wrallp.com](http://www.wrallp.com)

**Whitney Bailey Cox & Magnani LLC**

Leon Kriebel, President  
300 E. Joppa Road, Suite 200  
Baltimore, Md. 21286  
(410) 512-4500

[www.wbcm.com](http://www.wbcm.com)

**WHPacific Inc.**

Mark Pregeant, Chief Executive Officer  
9755 SW Barnes RD STE 300  
Portland, Ore. 97225  
(503) 626-0455

[www.whpacific.com](http://www.whpacific.com)

**Wight & Co.**

Mark Wight, Chairman & Chief  
Executive Officer

2500 North Frontage Road  
Darien, Ill. 60561  
(630) 969-7000

[www.wightco.com](http://www.wightco.com)

**Wiley|Wilson**

Fred Armstrong, Chairman and CEO  
127 Nationwide Drive  
Lynchburg, Va. 24502  
(434) 947-1901

[www.wileywilson.com](http://www.wileywilson.com)

**Willdan Group Inc.**

Thomas D. Brisbin, Chairman & CEO

2401 E. Katella Avenue, Suite 300  
Anaheim, Calif. 92806  
(714) 940-6300

[www.willdan.com](http://www.willdan.com)

**Wilson & Co. Inc., Engineers &  
Architects**

Steven D. Watt, PE, Chief Executive  
Office/President

4401 Masthead Street NE Ste150  
Albuquerque, N.M. 87109  
(505) 348-4000

[www.wilsonco.com](http://www.wilsonco.com)

**Wilson Associates**

Vincent Liew, Executive Board  
Member

3811 Turtle Creek Blvd., Ste. 1600  
Dallas, Texas 75219  
(214) 521-6753

[www.wilsonassociates.com](http://www.wilsonassociates.com)

**Wiss, Janney, Elstner Associates**

William Nugent, President and CEO  
330 Pflingsten Road

Northbrook, Ill. 60062  
(847) 272-7400

[www.wje.com](http://www.wje.com)

**Wood Rodgers Inc.**

Mark Rodgers, President  
3301 C St Bldg 100B  
Sacramento, Calif. 95816  
(916) 341-7760

[www.woodrogers.com](http://www.woodrogers.com)

**Wood plc**

Robin Watson, CEO  
17420 Katy Freeway  
Houston, Texas 77094  
(832) 809-8000

[woodplc.com](http://woodplc.com)

**Woodard & Curran**

Douglas McKeown, Chief Executive  
Officer

41 Hutchins Drive  
Portland, Maine 4102  
(800) 426-4262

[www.woodardcurran.com](http://www.woodardcurran.com)

**Woolpert Inc.**

Scott Cattran, President, Chief  
Executive Officer

4454 Idea Center Blvd.  
Dayton, Ohio 45430

(937) 461-5660

[www.woolpert.com](http://www.woolpert.com)

**WorleyParsons**

Neil Robertson, Regional Managing  
Director

575 N Dairy Ashford Rd Ste 400  
Houston, Texas 77079  
(281) 920-4393

<https://www.worleyparsons.com/>

**Wright-Pierce**

John W. Braccio, President/CEO  
11 Bowdoin Mill Island, Suite 140  
Topsham, Maine 4086  
(207) 725-8721

[www.wright-pierce.com](http://www.wright-pierce.com)

**WRNS Studio**

Sam Nunes, Founding Partner  
501 2nd Street, Suite 402  
San Francisco, Calif. 94107  
(415) 489-2224

[www.wrnsstudio.com](http://www.wrnsstudio.com)

**WSB & Associates Inc.**

Bret Weiss, President / CEO  
701 Xenia Avenue South, Suite 300  
Minneapolis, Minn. 55416  
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Bernard Zyscovich, FAIA, Founding  
Partner  
100 N Biscayne Blvd., 27th Floor  
Miami, Fla. 33132  
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