

ENR THE TOP 225

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NUMBER 51

AFRICAN JEWEL WL Meinhardt Group Pty. Ltd. has designed the Pinnacle Towers in Nairobi, Kenya. The 45-story tower will be a Hilton Hotel, and the 70-story mixed-use tower will rise 900 ft to become the tallest building in Africa. The project broke ground in May.



PHOTO COURTESY OF WL MEINHARDT GROUP PTY. LTD.

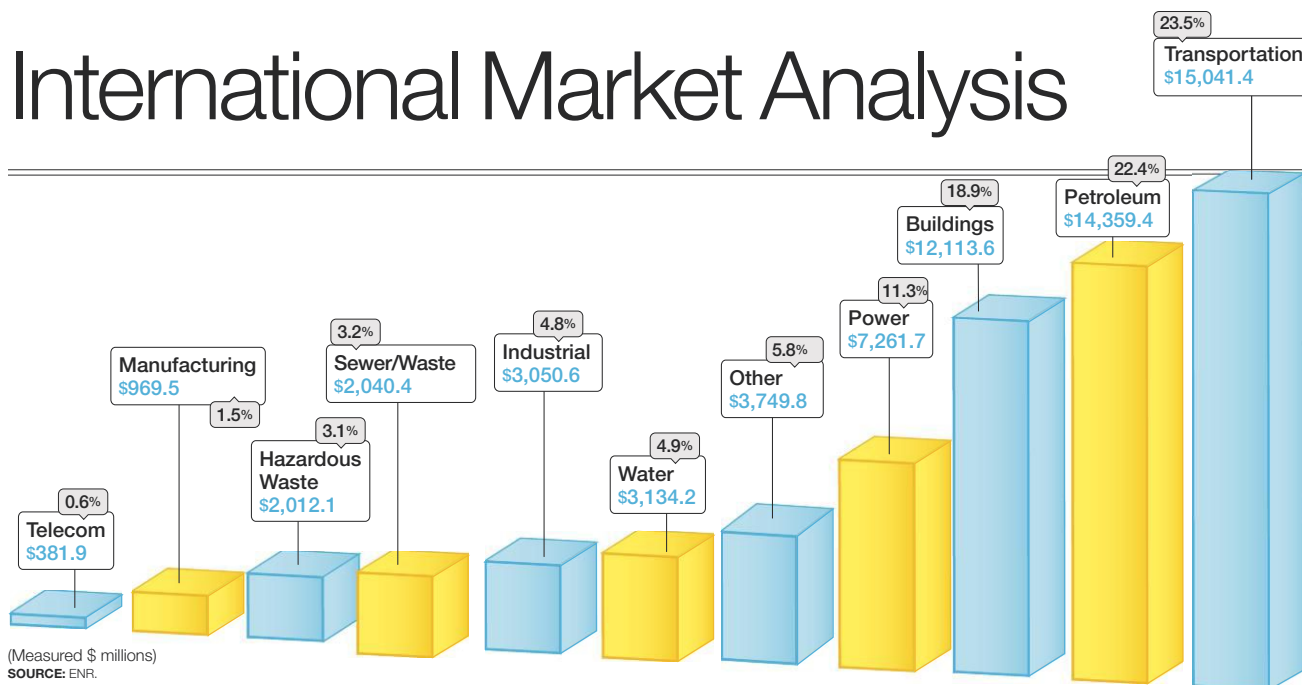
The Top 225 International Design Firms

Oil Sector Slows World Market

While the global petroleum market has slumped, many design firms see demographic changes providing opportunities [By Gary J. Tulacz and Peter Reina](#)



International Market Analysis



Comparing the Past Decade's International Design Revenue

(in \$ billions)
SOURCE: ENR



* The 2012-2016 figures are revenue for the Top 200 International Design Firms. The expanded 2016 Top 225 list firms had a combined revenue of \$64.11 billion.

The market for international design has traveled a rocky road over the past several years. The slowing growth in China's economy has led to a drop in demand for commodities, the plunge in oil prices has caused deferrals or cancellations in major petroleum projects, and global political and economic unrest has made investments in some regions uncertain. However, shifting demographics and new demands for infrastructure in underdeveloped countries have many international design firms looking to a brightening future.

The uncertainty in the market can be seen in the results of ENR's Top 225 International Design Firms survey. The Top 225 firms generated \$64.11 billion in design revenue in 2016 from projects outside their home countries, down 2.0%, from \$65.43 billion, in 2015 and 9.5%, from \$70.85 billion, in 2014. However, the Top 225 had \$79.30 billion in revenue from domestic projects in 2016, up 12.1%, from \$70.76 billion, in 2015.

On the Top 225 International Design Firms list, firms are ranked based on design revenue from projects outside of their home countries, measuring their presence in international commerce. The ENR Top 150 Global Design Firms list measures total worldwide design revenue, regardless of the project location.

The sagging market for petroleum-related projects is the main culprit in the global revenue downturn. International revenue from the petroleum sector fell 19.0%,



"The car fleet in its totality ... is expected to double in the next 20 years, from around one billion cars today to two billion cars in 2040. This will drive up oil demand."

Andrew Wood,
CEO,
WorleyParsons

to \$14.36 billion, in 2016. International revenue for the sector has now fallen 35.4% from 2014.

Firms in the petroleum sector say large projects are dwindling. "Many projects have been canceled or delayed. The current market is expected to be less active," says Sung Sang-Rok, CEO of South Korea's Hyundai Engineering Co. Ltd.

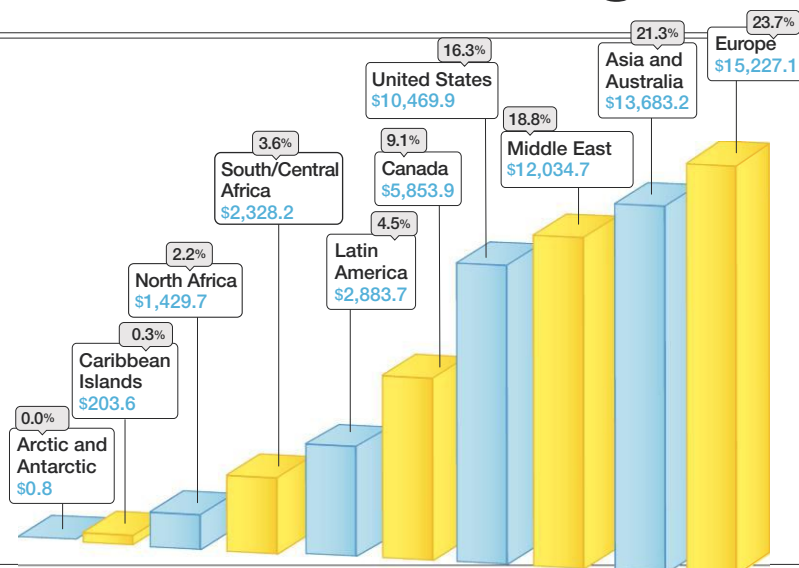
For WorleyParsons, 70% of its revenue comes from hydrocarbon work. However, the sector's few new mega-projects has had only a limited impact on the firm, as much of its work is in smaller projects and in operations and maintenance, says Andrew Wood, CEO of Australia's WorleyParsons. Further, "within hydrocarbons, we can shift between upstream, midstream [or] downstream as capital expenditure shifts its emphasis."

While the demand for oil is not about to dry up, Wood notes that "the car fleet in its totality, however, is expected to double in the next 20 years, from around one billion cars today to around two billion cars in 2040. This will drive up oil demand." He adds, "The increase in demand for car travel for the middle class, we believe, will overpower the effects of improving efficiency and the take up of electric vehicles."

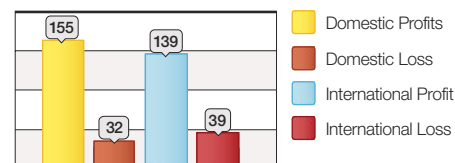
Consolidation Continues

Over the past several years, design firms have been consolidating, leading to the development of an

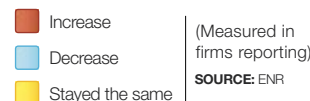
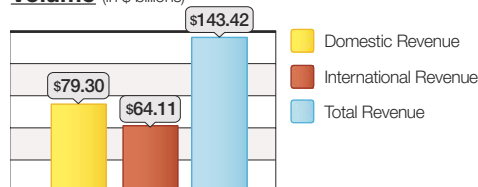
International Region Analysis



Number of Firms Reporting Profit-Loss



Volume (in \$ billions)



increasing number of megafirms. This trend is continuing this month with Canada's SNC-Lavalin Group Inc.'s absorption of U.K.-based W.S Atkins Plc, raising the combined workforce to over 50,000. "It's very much business as usual," says Heath Drewett, now Atkins's president. Having achieved the goal of an 8% margin last year, the focus is now on growth, he adds.

In the design sector, "consolidation will definitely continue," says Lars-Peter Søbye, president and CEO of Denmark's COWI AS. COWI seeks to make up for its relatively small size by being in the top three in selected regions and core business lines. Søbye plans to grow sales by 25%, to \$1.1 billion, over the next three years.

"This ... will be a year of consolidation," says Tomas Carlsson, CEO of Sweden's Sweco AB, which acquired Netherlands-based Grontmij in 2015. Yet with a head count of about 16,000 now, "we are looking for acquisitions all over northern Europe," he adds.

With some 6,000 staff worldwide, Paris-based SYSTRA Group is relatively small, but "if we are looking for specific expertise, we can second people from the shareholder," says COO Andrew McNaughton. France's state railroad company, SNCF, and the Paris region mass-transit authority, RATP, each owns 42% of the firm.

The acquisition of MWH Global by Canada's Stantec has expanded the firm's reach. "The integration of MWH into the Stantec network continues to demonstrate syner-

197
of the Top 225
sent in surveys
last year.

46.2%
increased
international
revenue in
2016.

53.3%
had lower
international
revenue in
2016.

gies as MWH brings a global footprint in geographies where the combined companies can now offer a more diverse scope of services to local communities," says Alan Krause, Stantec's global operations president.

The trend toward mergers and acquisitions also can be seen in Asia. Surbana Jurong Pvt. Ltd. of Singapore acquired Australia's SMEC in August 2016, expanding its global workforce to 9,800 employees in more than 95 offices across 40 countries.

Surbana Jurong also has launched a series of joint ventures. On May 25, it announced a new joint venture with Safdie Architects, Boston. To be called Safdie Surbana Jurong (SSJ), it will pursue major residential, commercial and institutional projects in Asia, says Wong Heang Fine, group CEO of Surbana Jurong. In March, Surbana Jurong formed a joint venture with China Highway Engineering Consulting Corp., a design subsidiary of China Communications Construction Group, to provide design services for highway and municipal projects, says Wong.

In another move by a Chinese firm, JSTI Inc. last September acquired EPTISA, a Spanish engineering firm that works in more than 45 countries around the world, and TestAmerica, which is the largest third-party environmental testing firm in the U.S., with 23 testing laboratories and more than 40 customer service centers, according to Allen Li, JSTI president. "These two

M&As brought material changes to the international business and layout of JSTI," expanding the firm's global footprint to nearly 3,500 overseas employees, Li says.

In a developing story, Dubai's Dar Group has apparently acquired 19.9% of WorleyParsons' stock in a takeover bid. WorleyParsons announced it had rejected a \$2.2-billion bid by Dar Group in November, saying the offer was undervalued. Many see Dar's bid as a move to diversify into the industrial and petroleum markets.

Demographics 101

In developed and developing countries, there has been a growing trend toward urbanization that has attracted the notice of international design firms. "The new generation, which we can call 'the vertical society,' is increasingly migrating to urban areas, living in buildings and moving away from suburban life," says Alexandre L'Heureux, CEO of WSP. Since this generation wants to live in an environment in which work, home, social and cultural life, and sport activities intermingle, cities need to evolve, he says. To meet this demand, cities must be rethought around major dynamic, active urban centers, he says.

Asia's growing middle class is demanding better infrastructure and fueling a demand for an increased consumer market. "The underlying demographic trends in Asia underpin our expectation of continued good opportunities in the region. We expect to see increased opportunities in the food-and-beverage, health-care, tourism and education sectors as Asia's expanding middle class looks to enjoy a fuller basket of consumer goods," says Greg Lowe, Group CEO of New Zealand's Beca Group Ltd.



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Increasing demand for better infrastructure is boosting prospects for international firms. Water and wastewater contracts pushed up sales in the sector for Netherlands-based Royal HaskoningDHV BV by 59% last year, now accounting for a quarter of group business, according to Anke Mastenbroek, director of the water business line.

Interest in new technologies, such as the company's Nereda wastewater treatment system, is boosting work, adds Mastenbroek. "Smart water solutions and technology will redefine everything in the water and wastewater industries," she believes.

Urbanization, even in Europe, and climate-change mitigation are creating demand for design firms, adds Carlsson. L'Heureux agrees, adding, "In 50 years, the temperature in summer in London will be 6.5° Celsius higher than it is today. As currently designed, most buildings are inadequate to cope with this daunting challenge."

Population growth, urbanization and the need for the world to upgrade or replace vital infrastructure continue to create a range of opportunities across the globe. "We expect to see a sustained flow of opportunities as we work with our clients to formulate sustainable approaches to managing these global challenges," says Lowe.

Global population rise, urbanization and competition between major cities for local investment are driving the demand for transportation services, says McNaughton. Railroads and metros underpin the SYSTRA Group, but the company is expanding into highways and bridges.

High-speed rail is "very location-specific" and demands long lead times, says McNaughton. "It's a particular market, unless you are in a country like France." Even France's high-speed program "is coming to an end."

HOW THE TOP INTERNATIONAL DESIGN FIRMS SHARED THE 2016 MARKET

DESIGNER NATIONALITY	# OF FIRMS	INT'L REVENUE		MIDDLE EAST		ASIA		AFRICA		EUROPE		UNITED STATES		CANADA		LAT. AMER. / CARIB.	
		\$ MIL.	%	\$ MIL.	%	\$ MIL.	%	\$ MIL.	%	\$ MIL.	%	\$ MIL.	%	\$ MIL.	%	\$ MIL.	%
AMERICAN	81	19,748.7	30.8	2,866.7	23.8	5,076.9	37.1	640.7	17.1	5,553.1	36.5	NA	NA	4,780.3	81.7	831.1	26.9
CANADIAN	4	7,427.8	11.6	476.0	4.0	963.0	7.0	218.2	5.8	1,877.9	12.3	3,688.9	35.2	NA	NA	203.8	6.6
EUROPEAN	54	21,919.3	34.2	4,945.3	41.1	3,093.8	22.6	1,615.6	43.0	6,732.9	44.2	3,847.5	36.7	291.1	5.0	1,393.2	45.1
BRITISH	4	4,876.8	7.6	1,359.0	11.3	1,080.0	7.9	287.0	7.6	490.7	3.2	1,517.0	14.5	73.9	1.3	69.2	2.2
GERMAN	5	499.3	0.8	207.4	1.7	57.3	0.4	98.5	2.6	117.8	0.8	0.1	0.0	0.0	0.0	18.3	0.6
FRENCH	7	2,282.3	3.6	498.7	4.1	433.0	3.2	263.3	7.0	703.4	4.6	161.7	1.5	36.7	0.6	185.6	6.0
DUTCH	5	5,631.0	8.8	789.7	6.6	958.1	7.0	184.5	4.9	1,601.4	10.5	1,718.5	16.4	75.0	1.3	303.8	9.8
ITALIAN	8	871.3	1.4	370.8	3.1	82.0	0.6	119.4	3.2	210.1	1.4	22.5	0.2	17.2	0.3	49.3	1.6
SPANISH	9	2,837.2	4.4	1,151.8	9.6	147.7	1.1	456.4	12.1	301.9	2.0	151.5	1.4	38.0	0.6	590.0	19.1
OTHER EUROPEAN	16	4,921.5	7.7	567.9	4.7	335.8	2.5	206.6	5.5	3,307.6	21.7	276.2	2.6	50.4	0.9	177.0	5.7
AUSTRALIAN	6	4,373.3	6.8	298.6	2.5	678.3	5.0	256.3	6.8	592.7	3.9	1,700.8	16.2	647.5	11.1	199.2	6.5
JAPANESE	11	734.2	1.1	118.4	1.0	363.7	2.7	75.4	2.0	36.5	0.2	87.1	0.8	5.0	0.1	48.1	1.6
CHINESE	24	3,698.9	5.8	604.8	5.0	2,115.6	15.5	504.4	13.4	151.4	1.0	100.4	1.0	2.2	0.0	220.1	7.1
KOREAN	12	1,159.3	1.8	278.1	2.3	619.4	4.5	75.8	2.0	15.5	0.1	20.7	0.2	5.8	0.1	144.0	4.7
ALL OTHERS	33	5,052.5	7.9	2,446.8	20.3	772.6	5.6	371.5	9.9	267.0	1.8	1,024.5	9.8	122.0	2.1	47.9	1.6
ALL FIRMS	225	64,113.9	100.0	12,034.7	100.0	13,683.2	100.0	3,757.8	100.0	15,227.1	100.0	10,469.9	100.0	5,853.9	100.0	3,087.3	100.0

SOURCE: ENR. NOTE: EXCLUDING \$0.78 MILLION FROM ANTARCTIC/ARCTIC OR UNALLOCATED

The Top 10 by Market

1	RANK			PETROLEUM
	2017	2016		
				Top 10 Revenue: \$10,300.9 Mil. Sector's Revenue: \$14,359.4 Mil.
1	3			FLUOR CORP.
2	1			WORLEYPARSONS
3	4			TECNICAS REUNIDAS
4	2			FUGRO NV
5	5			JACOBS
6	9			PETROFAC LTD.
7	0			TECHNIP
8	**			CB&I LLC
9	10			HYUNDAI ENGINEERING CO. LTD.
10	**			MAIRE TECNIMONT GROUP

2	RANK			TRANSPORTATION
	2017	2016		
				Top 10 Revenue: \$8,628.3 Mil. Sector's Revenue: \$15,041.4 Mil.
1	1			WSP
2	2			AECOM
3	3			DAR GROUP
4	10			WS ATKINS PLC
5	6			JACOBS
6	5			CH2M
7	**			EGIS
8	**			STANTEC INC.
9	9			ARUP
10	**			SYSTRA

3	RANK			BUILDING
	2017	2016		
				Top 10 Revenue: \$6,930.1 Mil. Sector's Revenue: \$12,113.6 Mil.
1	1			ARCADIS NV
2	3			WSP
3	2			DAR GROUP
4	4			AECOM
5	5			ARUP
6	6			STANTEC INC.
7	9			SWECO AB
8	7			JACOBS
9	8			RAMBOLL GRUPPEN A/S
10	10			WS ATKINS PLC

4	RANK			POWER
	2017	2016		
				Top 10 Revenue: \$3,778.9 Mil. Sector's Revenue: \$7,261.7 Mil.
1	1			POWER CONSTRUCTION CORP. OF CHINA
2	**			CHINA ENERGY ENGINEERING CORP. LTD.
3	**			SENER INGENIERÍA Y SISTEMAS SA
4	4			TRACTEBEL ENGINEERING SA
5	3			WS ATKINS PLC
6	2			WSP
7	5			WORLEYPARSONS
8	6			POYRY
9	**			STANTEC INC.
10	**			TETRA TECH INC.

5	RANK			INDUSTRIAL
	2017	2016		
				Top 10 Revenue: \$2,058.8 Mil. Sector's Revenue: \$3,050.6 Mil.
1	1			JACOBS
2	2			INTERTEK-PSI
3	3			HATCH LTD.
4	5			BECHTEL
5	4			FLUOR CORP.
6	7			POYRY
7	**			SWECO AB
8	9			WSP
9	6			WORLEYPARSONS
10	8			ARCADIS NV

6	RANK			WATER
	2017	2016		
				Top 10 Revenue: \$1,875.7 Mil. Sector's Revenue: \$3,134.2 Mil.
1	6			STANTEC INC.
2	1			ARCADIS NV
3	2			TETRA TECH INC.
4	3			AECOM
5	4			CH2M
6	7			JACOBS
7	9			BLACK & VEATCH
8	**			GHD
9	8			MOTT MACDONALD
10	**			KBR

7	RANK			HAZARDOUS WASTE
	2017	2016		
				Top 10 Revenue: \$1,783.8 Mil. Sector's Revenue: \$2,012.1 Mil.
1	1			ARCADIS NV
2	2			AECOM
3	4			RAMBOLL GRUPPEN A/S
4	6			CH2M
5	3			GHD
6	**			WSP
7	7			FLUOR CORP.
8	9			AMEC FOSTER WHEELER
9	**			STANTEC INC.
10	**			PARSONS

8	RANK			SEWER/WASTE
	2017	2016		
				Top 10 Revenue: \$1,260.9 Mil. Sector's Revenue: \$2,040.4 Mil.
1	8			STANTEC INC.
2	2			CH2M
3	3			AECOM
4	5			MOTT MACDONALD
5	**			JSTI GROUP
6	**			RAMBOLL GRUPPEN A/S
7	**			JACOBS
8	9			DAR GROUP
9	7			GHD
10	**			BLACK & VEATCH

9	RANK			MANUFACTURING
	2017	2016		
				Top 10 Revenue: \$711.1 Mil. Sector's Revenue: \$969.5 Mil.
1	1			LARSEN & TOUBRO LTD.
2	3			CH2M
3	4			JACOBS
4	6			ARCADIS NV
5	**			SAMOO ARCHITECTS & ENGINEERS
6	**			GOLDER ASSOCIATES CORP.
7	**			HYUNDAI ENGINEERING CO. LTD.
8	7			ARUP
9	**			SWECO AB
10	10			WSP

Belt & Road

Some of the most prominent opportunities in Asia are the result of China's Silk Road Economic Belt and Maritime Silk Road, known as Belt & Road, designed to foster economic growth for countries in southern Asia and the Middle East. "The greatest opportunities for business in the international design market lie in Asia and in countries along the Belt & Road proposed by China," says Keith Griffiths, chairman of Aedas.

Omar Shahzad, CEO of WL Meinhardt Group, cites

a study that shows there were 8,158 new contracts, amounting to \$126 billion, signed in 61 Belt & Road countries in 2016. "Having offices in most of the 65 countries along the Belt & Road, Singapore-headquartered Meinhardt Group is well positioned to join the next wave of megadevelopments along [this] burgeoning market," he says.

Many firms are becoming more active in Asia. SYSTRA aims to expand its international work, says McNaughton. Recent acquisitions, including firms in

The Top 10 by Region

1		ASIA/AUSTRALIA	
RANK		2017 2016	
		Top 10 Revenue: \$6,231.7 Mil. Sector's Revenue: \$13,683.2 Mil.	
1	1	AECOM	
2	7	FLUOR CORP.	
3	2	JACOBS	
4	3	WSP	
5	8	POWER CONSTRUCTION CORP. OF CHINA	
6	4	ARUP	
7	6	HYUNDAI ENGINEERING CO. LTD.	
8	9	ARCADIS NV	
9	5	FUGRO NV	
10	**	CHINA ENERGY ENGINEERING CORP. LTD.	

2		EUROPE	
RANK		2017 2016	
		Top 10 Revenue: \$9,566.7 Mil. Sector's Revenue: \$15,227.1 Mil.	
1	2	JACOBS	
2	1	WSP	
3	9	AECOM	
4	7	SWEVO AB	
5	3	ARCADIS NV	
6	4	RAMBOLL GRUPPEN A/S	
7	6	FLUOR CORP.	
8	8	CH2M	
9	5	FUGRO NV	
10	10	WORLEYPARSONS	

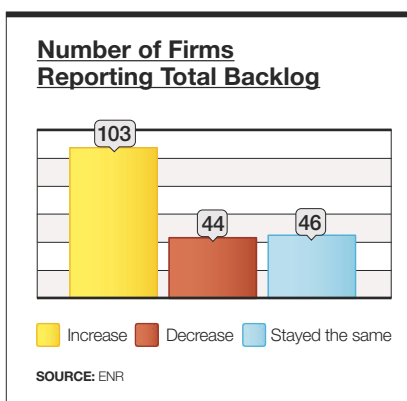
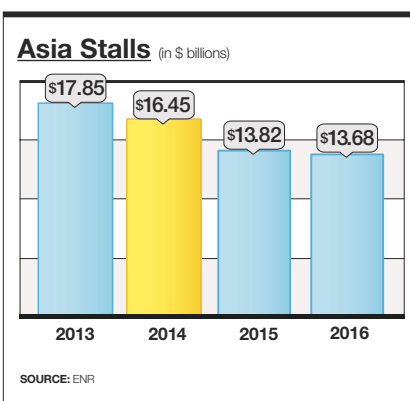
3		MIDDLE EAST	
RANK		2017 2016	
		Top 10 Revenue: \$5,230.7 Mil. Sector's Revenue: \$12,034.7 Mil.	
1	1	DAR GROUP	
2	2	TECNICAS REUNIDAS	
3	6	PETROFAC LTD.	
4	3	AECOM	
5	5	KHATIB & ALAMI	
6	**	KBR	
7	8	WS ATKINS PLC	
8	10	ARCADIS NV	
9	**	FUGRO NV	
10	**	BECHTEL	

4		CANADA	
RANK		2017 2016	
		Top 10 Revenue: \$3,864.1 Mil. Sector's Revenue: \$5,853.9 Mil.	
1	1	AMEC FOSTER WHEELER	
2	3	TETRA TECH INC.	
3	5	AECOM	
4	6	JACOBS	
5	2	WORLEYPARSONS	
6	**	GOLDER ASSOCIATES CORP.	
7	8	EXP US SERVICES INC.	
8	4	FLUOR CORP.	
9	**	BUREAU VERITAS	
10	**	PARSONS	

5		UNITED STATES	
RANK		2017 2016	
		Top 10 Revenue: \$8,861.9 Mil. Sector's Revenue: \$10,469.9 Mil.	
1	1	WSP	
2	4	STANTEC INC.	
3	2	ARCADIS NV	
4	9	WS ATKINS PLC	
5	3	WORLEYPARSONS	
6	6	DAR GROUP	
7	7	MOTT MACDONALD	
8	5	CARDNO LTD.	
9	10	GHD	
10	**	LARSEN & TOUBRO LTD.	

6		LATIN AMER./CARIBBEAN	
RANK		2017 2016	
		Top 10 Revenue: \$1,284.8 Mil. Sector's Revenue: \$3,087.3 Mil.	
1	1	TECNICAS REUNIDAS	
2	6	ARCADIS NV	
3	**	SENER INGENIERÍA Y SISTEMAS SA	
4	5	FLUOR CORP.	
5	4	WORLEYPARSONS	
6	3	FUGRO NV	
7	**	HYUNDAI ENGINEERING CO. LTD.	
8	**	AYESA	
9	8	CH2M	
10	**	POWER CONSTRUCTION CORP. OF CHINA	

7		AFRICA	
RANK		2017 2016	
		Top 10 Revenue: \$1,540.5 Mil. Sector's Revenue: \$3,757.9 Mil.	
1	**	SENER INGENIERÍA Y SISTEMAS SA	
2	1	MOTT MACDONALD	
3	4	AURECON	
4	6	POWER CONSTRUCTION CORP. OF CHINA	
5	2	DAR GROUP	
6	**	EGIS	
7	**	BECHTEL	
8	**	CHINA COMMUNICATIONS CONSTR. GROUP LTD.	
9	5	FUGRO NV	
10	**	TRACTEBEL ENGINEERING SA	



Australia and India, give it “the ability to deploy knowledge and expertise of the global business to local markets.”

Outside its home market, Sweco works on a project-by-project basis in Asia, Africa and Central America, says Carlson. “We are looking at countries where we can export our core competences. We are careful not to set up permanent offices [there],” he adds.

Mastenbroek reports growing water and wastewater work in urban India. In Vietnam and Indonesia, Royal HaskoningDHV is “steadily growing in the field of basic

On the Web

For expanded content on the ENR Top Lists, see ENR.com/toplists.

service delivery in water and wastewater treatment,” she says. International funding agencies are crucial. “We’re seeing an increase of private-sector involvement,” she says.

From its traditional East Asian bases, including mainland China, Hong Kong and Singapore, Atkins is expanding into regional markets, including Vietnam, Indonesia and the Philippines, says Drewett. Rather than establish permanent offices there, Atkins seeks local partnerships.

With 60% of sales outside its home country, South Africa and the U.K. are Royal HaskoningDHV’s biggest

foreign water and wastewater markets, notes Mastenbroek. In India, “the government’s drive toward smart cities also gives us good opportunities,” she says.

A Mixed Bag

In Europe, Scandinavia has the hottest demand. “Our base markets are in northern Europe,” says Carlsson. Sweco plans to build significant share in the region, which is served by numerous design firms. It already has some 10% of the Nordic market, says Carlson.

Norway, Denmark, Germany, Belgium and the U.K. are a “good market,” says Carlsson. In Germany, the company is “looking at double-digit growth,” he reports.

Sweden and Norway “decided to pour money into infrastructure,” says Søybye. But Danish infrastructure demand has fallen. Atkins’ continental European business is largely confined to “very good” road and rail markets in Sweden and Denmark, says Drewett.

In its home base, Drewett is optimistic about the U.K. infrastructure market, despite uncertainties surrounding the country’s planned departure from the European Union [Brexit] in 2019. “It’s had very little impact [on us] thus far,” he says. Carlsson agrees, and McNaughton is relaxed about Brexit, describing the U.K. as “a future core market.” Søybye is also optimistic about U.K. infrastructure. If the post-Brexit economy declines, the government will need to invest, he believes.

Royal HaskoningDHV also finds a good market in the U.K., “spurred by the need to upgrade and extend old assets applying our new technologies,” adds Mastenbroek.

In the Middle East, the plunge in oil prices has hit many nations hard, depressing not just the local petroleum market, but also the publicly funded infrastructure and building markets that these nations fund. However, many firms believe the worst is over.

“It seems that the [Gulf Cooperation Council] countries are healing from the drop in the oil prices last year and the general global economic slowdown. One might even consider that this negative experience has finally transformed itself into an opportunity for international designers,” says Birhan Emre Yazici, CEO of Turkey’s NKY. The need for public service architecture, urban retrofitting projects and tourist facilities increased toward the end of 2016, he notes.

However, the Middle East remains a “demanding” market that is politically unpredictable and subject to fierce competition, says Søybye. Getting paid is still difficult, too. Drewett reports a hiatus in rail and infrastructure projects in the U.A.E., while real estate is picking up.

Many firms are wary of working in Iraq. “The country has tremendous financial pressures due to the ongoing war with ISIS, the oil-price slump, and acute mismanagement and corruption. [They] have affected the growth

Buildings

Homage to the Written Word



Aedas (**No. 61**) has designed the Xinhua Bookstore Group Jiefangbei Book City Mixed-Use Project in Chongqing, China. Pooling into folds at the mezzanine at the bottom, the facade is inspired by a long Chinese scroll.



“As engineers, I believe we have two options: Continue as we are and be commoditized or, even worse, be replaced by machines. Alternatively, we must embrace a disrupted future and become better designers and innovators.”

Kourosh Kayvani, Global Director of Excellence and Expertise, Aurecon

tremendously,” says Ammar Al Assam, CEO, Dewan Architects + Engineers. He says projects are almost non-existent and collecting receivables is a great concern. “This is especially significant given that Iraq is producing its highest volume of oil—at close to 4 million barrels—with not much to show for it, unfortunately,” he adds.

Africa continues to be a difficult market for many international designers. The drop in oil prices hit many African nations hard, causing their markets to slump. For example, the Angola, Mozambique and Algeria markets are soft. “Due to the oil and gas price decline, clients have no foreign currency and try to pay in local currency,” says Ilidio de Ayala Serodio, PCG president, Profabril Group.

Other firms also are seeing the impact in Africa of low oil prices. “Our exposure to the oil-and-gas sector had two different set of impacts: On the one hand, oil-dependent countries such as Gabon, Congo and Nigeria significantly reduced their budgets due to low oil prices, and our business there slowed down. On the other hand, large hydrocarbon discoveries in Senegal, Cote d’Ivoire, Ghana and Mauritania are creating new opportunities for us,” says Mosbah Kanzari, deputy general manager of Tunisia’s Studi International.

However, Kanzari continues to be optimistic about Africa, saying, “We feel strongly optimistic about the design market in sub-Saharan Africa, where the infrastructure gap is still significant and

the demand for professional and on-the-ground design capability very large.”

A New Approach

The game is changing for international firms. It is no longer enough simply to provide a quick design or a quick fix, especially in developing countries. Clients are beginning to rely on international design firms to help develop programs and oversee construction to make the best of a country's limited resources.

Increasingly, clients in international markets and developing countries are seeking full-service and co-ownership models from their engineering and project consultants, says Yuichiro Motomura, CEO of Japan's PADECO Co. Ltd. He says developing countries are no longer satisfied with firms' "touch-and-go" models that provide merely advisory or project design services.

Clients want designers not only for feasibility studies but also to manage the whole project, from concept to commissioning, says Motomura. "So, gone are the days when we can merely be visitors to these countries. Our engineering teams now have to be closely embedded on the ground, ensuring successful delivery of infrastructure projects actually in operation."

Many international design firms say they must not only solve the problem in front of them but also look at the client's overall needs and plan long-term solutions. "As engineers, I believe we have two options: Continue as we are and be commoditized or, even worse, be replaced by machines. Alternatively, we must embrace a disrupted future and become better designers and innovators that truly bring ideas to life and shape the world," says Kourosh Kayvani, global director of excellence and expertise for Australia's Aurecon.

"We can steer thinking away from expedient, short-term economic and political solutions. We can become creators of both elegant and functional solutions to address society's big challenges if we embed ourselves within the process ... with a passion for design," says Kayvani. ■

Technology | By Gary J. Tulacz

GHD Is Streamlining Processes



New technologies are providing substantial advantages for international design firms, often providing significant efficiencies. Virtually all major firms are investing heavily in new hardware and software.

An example of this trend, Australia's GHD (**No. 25**) has designed and implemented a complete Big Data platform, which eliminates the need for on-premises IT infrastructure to collect, process, model, store and present data, says CEO Ashley Wright.

"We are also able to host client data in our secure cloud environment," Wright says. This technology was recently used on a project to provide real-time vibration and stability monitoring of critical infra-

structure. The client was able to protect a major asset by using structure-mounted sensors, a networking solution to transmit the data in real time, and data analytics, he says.

But there are some areas where technology can take the bite out of operating in dangerous situations. For example, Wright notes that combining high-resolution drone photos with 3D modeling has enabled firms to dramatically streamline inspection of structures (see image). "Many structures we inspect are not readily accessible, and some rivers in Queensland, Australia, where we have done this work, are home to crocodiles, so there are obvious health and safety benefits, as well," Wright notes. ■

How To Read the Tables

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

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; O-other. Other combinations possible. Firms classified themselves.

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

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

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

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

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

Industrial Process includes pulp and paper mills, steel mills, non-ferrous metal

refineries, pharmaceutical plants, chemical plants, food and other processing plants, etc.

Petroleum comprises refineries, petrochemical plants, offshore facilities, pipelines, etc.

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

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

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

RANK 2017	RANK 2016	FIRM	FIRM TYPE	2016 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL.	% OF TOTAL REV.									
1	1	WSP, Montreal, Quebec, Canada†	EC	4,070.9	81	28	1	7	1	2	4	53	2	0
2	5	AECOM, Los Angeles, Calif., U.S.A.†	EAC	3,410.0	46	29	0	4	6	4	1	46	11	0
3	2	ARCADIS NV, Amsterdam, The Netherlands†	EC	3,369.0	91	37	1	2	9	2	3	8	17	0
4	4	JACOBS, Dallas, Texas, U.S.A.	EAC	2,946.0	46	14	2	3	4	2	50	24	0	1
5	3	WORLEYPARSONS, North Sydney, NSW, Australia	EC	2,372.0	89	1	0	11	0	0	79	2	1	0
6	7	DAR GROUP, Dubai, U.A.E.†	EA	2,275.2	100	49	0	3	2	3	4	39	0	1
7	16	STANTEC INC., Edmonton, Alberta, Canada†	A	2,122.0	70	20	0	8	19	20	6	22	2	0
8	8	FLUOR CORP., Irving, Texas, U.S.A.†	EC	2,071.4	63	0	1	1	0	0	95	0	3	0
9	6	FUGRO NV, Leidschendam, The Netherlands†	GE	1,778.0	91	12	0	10	3	0	68	3	0	3
10	15	WS ATKINS PLC, Epsom, Surrey, U.K.†	EA	1,553.3	55	22	0	20	4	0	3	51	0	0
11	10	TECNICAS REUNIDAS, Madrid, Spain	EC	1,522.8	94	0	0	5	1	0	93	1	0	0
12	13	CH2M, Englewood, Colo., U.S.A.†	E	1,309.3	37	0	4	0	12	15	8	48	14	0
13	9	MOTT MACDONALD, Croydon, Surrey, U.K.†	EC	1,299.9	60	12	0	12	8	8	23	31	1	0
14	14	ARUP, London, U.K.†	E	1,220.6	69	41	2	2	2	3	7	36	1	2
15	26	SWECO AB, Stockholm, Sweden†	EA	1,199.0	62	35	2	9	4	5	10	31	1	0
16	18	RAMBOLL GRUPPEN A/S, Copenhagen S, Denmark†	E	1,159.4	74	30	0	6	1	6	4	26	24	0
17	27	POWER CONSTRUCTION CORP. OF CHINA, Beijing, China†	EC	1,090.6	15	0	0	86	0	1	0	1	0	11
18	20	KBR, Houston, Texas, U.S.A.†	EC	958.0	50	0	0	0	8	0	31	19	0	0
19	12	AMEC FOSTER WHEELER, Atlanta, Ga., U.S.A.†	EC	908.0	47	11	1	17	2	1	32	7	5	0
20	11	SNC-LAVALIN INC., Montreal, Quebec, Canada†	EC	883.9	44	1	0	15	0	0	50	17	0	0
21	28	TETRA TECH INC., Pasadena, Calif., U.S.A.	E	837.0	32	1	1	20	33	3	21	18	4	0
22	25	PETROFAC LTD., Jersey, Channel Islands, U.K.†	EC	803.0	100	0	0	0	0	0	100	0	0	0
23	**	TECHNIP, Paris, France†	EC	775.0	94	0	0	0	0	0	100	0	0	0
24	21	HYUNDAI ENGINEERING CO. LTD., Seoul, S. Korea	EC	748.0	87	1	4	19	0	3	73	0	0	0
25	23	GHD, Sydney, NSW, Australia†	EA/ENV	739.3	60	27	0	1	15	9	7	13	20	0
26	17	BECHTEL, San Francisco, Calif., U.S.A.†	EC	724.0	45	1	0	3	1	0	68	27	1	0
27	**	EGIS, Saint-Quentin-en-Yvelines, France†	EC	715.0	63	11	0	2	5	0	0	82	0	0
28	**	GOLDER ASSOCIATES CORP., Palm Beach Gardens, Fla., U.S.A.†	E	684.6	76	12	4	5	2	3	26	20	0	1
29	**	CHINA ENERGY ENGINEERING CORP. LTD., Beijing, China†	EC	644.8	10	0	0	100	0	0	0	0	0	0
30	19	CB&I LLC, The Woodlands, Texas, U.S.A.†	EC	625.7	28	0	0	0	0	0	99	0	0	0
31	33	INTERTEK-PSI, Arlington Heights, Ill., U.S.A.†	E	584.6	49	0	0	20	0	0	80	0	0	0
32	51	SENER INGENIERIA Y SISTEMAS SA, Las Arenas (Getxo), Vizcaya, Spain†	EA	580.5	97	0	0	72	0	0	4	24	0	0
33	32	COWI A/S, Kongens Lyngby, Denmark†	EC	576.9	69	21	0	0	6	10	0	52	1	0
34	22	CARDNO LTD., Brisbane, Queensland, Australia†	EC	568.3	63	0	0	0	0	0	0	0	0	0
35	48	SURBANA JURONG PRIVATE LTD., Singapore†	EC	498.0	64	28	0	13	7	0	1	45	3	0
36	40	LARSEN & TOUBRO LTD., Mumbai, Maharashtra, India†	EC	497.5	83	0	79	0	0	0	16	5	0	0
37	35	POYRY, Vantaa, Finland†	E	458.0	78	2	0	43	2	2	31	11	6	0
38	38	MAIRE TECNIMONT GROUP, Milan, Italy†	EC	450.5	84	0	0	6	0	0	93	1	0	0
39	30	PARSONS, Pasadena, Calif., U.S.A.†	EC	450.0	30	12	0	0	3	0	2	70	9	4
40	39	KHATIB & ALAMI, Beirut, Lebanon†	EA	441.0	97	51	0	3	14	6	2	15	0	0
41	37	TRACTEBEL ENGINEERING SA, Brussels, Belgium†	EC	429.3	65	3	0	84	0	0	7	6	0	0
42	42	SYSTRA, Paris, France†	EC	426.0	60	0	0	0	0	0	0	100	0	0
43	46	BLACK & VEATCH, Overland Park, Kan., U.S.A.†	EC	408.2	30	2	0	40	29	15	13	0	0	0
44	49	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD., Beijing, China†	EC	353.7	8	3	0	17	5	0	0	74	0	0
45	24	HATCH LTD., Mississauga, Ontario, Canada†	EC	351.0	45	0	0	9	4	0	64	11	0	0
46	43	ROYAL HASKONINGDHV, Amersfoort, The Netherlands†	EC	342.2	51	11	1	7	16	9	6	49	0	2
47	44	AURECON, Melbourne, Victoria, Australia	EC	332.1	46	37	4	7	5	0	5	22	0	2
48	52	AF GROUP, Stockholm, Sweden†	E	327.4	25	14	5	42	0	0	12	26	0	0
49	45	LOUIS BERGER, Morristown, N.J., U.S.A.†	EAP	304.3	48	4	0	15	13	0	9	51	0	0
50	53	EXP US SERVICES INC., Chicago, Ill., U.S.A.	E	285.3	61	31	0	3	6	7	5	14	0	0
51	**	WL MEINHARDT GROUP PTY. LTD., Melbourne, Victoria, Australia†	EC	246.2	91	68	5	0	1	8	1	15	0	2

RANK 2017	2016	FIRM	FIRM TYPE	2016 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL.	% OF TOTAL REV.									
52	**	IBI GROUP, Westerville, Ohio, U.S.A.†	AE	238.8	67	66	9	3	2	2	0	15	0	0
53	65	NIPPON KOEI GROUP, Tokyo, Japan†	EC	227.3	34	2	0	11	12	8	0	42	0	2
54	77	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORP., Beijing, China†	EC	219.0	50	0	0	0	0	0	100	0	0	0
55	54	TECNICA Y PROYECTOS SA (TYPESA), Madrid, Spain†	EA	215.0	86	18	0	8	13	7	0	50	0	0
56	**	BUREAU VERITAS, Fort Lauderdale, Fla., U.S.A.†	E	212.6	33	21	0	10	35	0	30	0	4	0
57	50	GENSLER, San Francisco, Calif., U.S.A.	A	211.4	18	93	1	0	0	0	0	3	0	4
58	62	IDOM, Bilbao, Vizcaya, Spain	EA	195.2	80	10	4	29	2	3	22	27	0	3
59	59	FICHTNER GROUP, Stuttgart, Germany†	EC	194.7	63	0	1	84	7	8	0	0	0	0
60	63	DORSCH HOLDING GMBH, Frankfurt, Germany†	EC	194.7	98	4	0	8	39	22	0	25	0	1
61	**	AEDAS, Hong Kong, China	A	189.3	98	82	0	0	0	0	0	18	0	0
62	57	ILF CONSULTING ENGINEERS, Rum/Innsbruck, Austria†	EC	187.1	84	1	0	12	21	3	42	19	0	0
63	67	HDR, Omaha, Neb., U.S.A.†	EA	169.0	9	74	0	2	2	3	0	15	4	0
64	58	CHINA NATIONAL MACHINERY INDUSTRY CORP., Beijing, China†	EC	168.2	28	14	1	46	11	1	8	16	0	0
65	80	SINOPEC ENGINEERING (GROUP) CO. LTD., Beijing, China†	EC	157.4	21	0	0	0	0	0	100	0	0	0
66	69	ASSOCIATED CONSULTING ENGINEERS, Athens, Amarousion, Greece†	EA	151.0	94	31	0	2	10	30	4	19	2	1
67	71	ARTELIA, Lyon, France†	EC	145.7	34	32	1	6	15	4	26	16	0	0
68	61	CHIYODA CORP., Yokohama, Kanagawa, Japan†	EC	142.9	76	0	0	2	0	0	67	0	0	0
69	**	CHINA CHENGDA ENGINEERING CO. LTD., Chengdu, Sichuan, China	EC	141.3	50	0	0	94	0	0	6	0	0	0
70	66	SKIDMORE, OWINGS & MERRILL LLP, New York, N.Y., U.S.A.†	AE	141.0	41	95	0	0	0	0	0	5	0	0
71	92	CTCI CORP., Taipei, Taiwan†	EC	139.8	64	0	0	2	0	0	97	0	0	0
72	73	CDM SMITH, Boston, Mass., U.S.A.†	EC	139.5	20	5	0	5	19	13	0	36	22	0
73	64	CHINA RAILWAY GROUP LTD., Beijing, China†	EA	132.7	8	4	0	0	0	0	0	96	0	0
74	70	OPUS INTERNATIONAL CONSULTANTS LTD., Wellington, New Zealand†	E	131.3	41	25	0	0	10	4	15	47	0	0
75	79	KEO INTERNATIONAL CONSULTANTS, Shuwaikh, Kuwait	AEP	130.2	94	76	0	0	2	11	0	11	0	0
76	94	ORIENTAL CONSULTANTS GLOBAL (ACKG LTD.), Tokyo, Japan†	EC	128.5	30	9	0	1	4	1	0	83	1	0
77	78	WOODS BAGOT ARCHITECTS PC, San Francisco, Calif., U.S.A.†	A	125.0	81	94	0	0	0	0	0	6	0	0
78	83	AYESA, Sevilla, Spain	EC	124.6	68	5	0	4	22	5	10	53	0	1
79	75	AEGION CORP., Chesterfield, Mo., U.S.A.	EC	124.0	41	5	0	0	0	8	84	3	0	0
80	**	SAIPEM SPA, San Donato Milanese, Italy	EC	124.0	39	0	0	0	0	1	98	1	0	0
81	85	PROGER SPA, Rome, Italy†	EA	120.1	81	82	0	0	0	0	15	3	0	0
82	60	CDI CORP., Philadelphia, Pa., U.S.A.†	EA	119.5	26	20	7	0	0	0	50	22	0	0
83	74	KOHN PEDERSEN FOX ASSOCIATES PC, New York, N.Y., U.S.A.†	A	116.9	74	85	0	0	0	0	0	15	0	0
84	89	BECA GROUP LTD., Auckland, New Zealand†	EA	116.8	31	28	19	5	8	0	13	25	0	0
85	81	AUSENCO LTD., South Brisbane, Queensland, Australia†	E	115.5	80	0	0	0	0	0	0	0	0	0
86	82	EHAF CONSULTING ENGINEERS, Cairo, Egypt	AE	112.4	80	58	0	0	0	0	7	35	0	0
87	87	NORR, Chicago, Ill., U.S.A.†	AE	109.5	73	96	0	0	0	0	0	4	0	0
88	93	MORRISON HERSHFIELD, Atlanta, Ga., U.S.A.†	EA	108.7	84	43	0	0	1	3	0	45	0	7
89	91	ASSYSTEM, Paris, France†	EC	108.0	33	13	0	80	0	0	7	0	0	0
90	72	TEBODIN BV, The Hague, The Netherlands	E	107.0	54	7	14	7	0	1	71	0	0	0
91	95	KEPCO ENGINEERING & CONSTRUCTION CO., Gyeongsangbuk-do, S. Korea	AE	106.2	27	0	0	100	0	0	0	0	0	0
92	76	HOK, St. Louis, Mo., U.S.A.	AE	105.9	25	94	0	0	0	0	0	6	0	0
93	**	JSTI GROUP, Nanjing, Jiangsu, China†	EC	105.5	24	1	0	4	9	67	0	10	1	0
94	88	PM GROUP, Dublin, Ireland†	EA	104.4	51	4	6	2	0	0	78	0	0	4
95	96	SSH, Manama, Bahrain	AE	104.3	93	61	0	1	1	5	2	24	0	0
96	**	CHINA TIANCHEN ENGINEERING CORP., Tianjin, China	EA	102.2	66	2	0	10	0	0	84	0	0	0
97	**	NKY ARCHITECTS AND ENGINEERS, Ankara, Turkey†	AE	95.3	79	100	0	0	0	0	0	0	0	0
98	101	DPS ENGINEERING, Cork, Ireland†	EC	92.0	66	0	0	0	0	0	0	0	0	0
99	112	ITALCONSULT SPA, Rome, Italy	EC	91.5	97	47	0	0	7	6	0	40	0	0
100	98	CONSOLIDATED CONTRACTORS GROUP, Athens, Attica, Greece†	C	90.3	100	14	0	2	0	0	48	37	0	0
101	31	WOOD GROUP, Houston, Texas, U.S.A.†	EC	78.5	13	0	0	0	0	0	100	0	0	0
102	100	ECG ENGINEERING CONSULTANTS GROUP SA, Cairo, Egypt	EA	77.5	77	75	0	4	10	0	4	5	0	2

RANK 2017	RANK 2016	FIRM	FIRM TYPE	2016 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL.	% OF TOTAL REV.									
103	103	ATLAS TEXAS CONSTRUCTION AND TRADING INC., Katy, Texas, U.S.A.†	EA	74.6	100	100	0	0	0	0	0	0	0	0
104	41	SK E&C, Seoul, S. Korea†	EA	70.6	53	0	0	23	0	0	77	0	0	0
105	135	DOHWA ENGINEERING CO. LTD., Seoul, S. Korea	EC	64.1	25	0	0	47	5	4	0	36	0	0
106	104	SETEC, Paris, France†	EC	63.4	22	4	2	0	2	6	0	86	0	0
107	110	ENERGOPROJEKT HOLDING PLC, Belgrade, Serbia†	EC	60.2	79	0	0	93	7	0	0	0	0	0
108	120	PERKINS EASTMAN, New York, N.Y., U.S.A.†	A	60.2	28	100	0	0	0	0	0	0	0	0
109	107	INGENIERÍA Y ECONOMÍA DEL TRANSPORTE SME MP SA, Madrid, Spain†	EC	57.7	27	0	0	0	0	0	0	100	0	0
110	114	EMPRESARIOS AGRUPADOS, Madrid, Spain†	EA	57.6	58	0	0	70	0	0	0	2	4	6
111	99	SARGENT & LUNDY LLC, Chicago, Ill., U.S.A.†	E	57.3	12	0	0	100	0	0	0	0	0	0
112	**	CHINA ALUMINUM INTERNATIONAL ENGINEERING CORP., Beijing, China†	EA	56.8	25	40	0	0	0	0	60	0	0	0
113	119	ARCPLUS GROUP PLC, Shanghai, China†	AE	55.0	11	100	0	0	0	0	0	0	0	0
114	108	WATG + WIMBERLY INTERIORS, Irvine, Calif., U.S.A.†	A	52.8	79	100	0	0	0	0	0	0	0	0
115	121	INGEROP, Rueil-Malmaison, France†	EC	49.2	22	28	18	0	3	0	0	51	0	0
116	122	CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CWE), Beijing, China†	EC	48.4	100	5	0	69	7	0	3	16	0	0
117	109	THORNTON TOMASETTI INC., New York, N.Y., U.S.A.	EA	48.3	20	95	1	1	0	0	0	2	0	0
118	123	STUDI INTERNATIONAL, Tunis, Tunisia†	EC	47.8	82	19	0	4	16	4	0	38	0	7
119	124	PAGE SOUTHERLAND PAGE INC., Washington, D.C., U.S.A.	AE	45.8	32	92	8	0	0	0	0	0	0	0
120	116	ACCIONA INFRAESTRUCTURAS, Madrid, Spain†	EC	45.4	71	0	0	11	7	0	0	82	0	0
121	117	H.P. GAUFF INGENIEURE GMBH, Frankfurt am Main, Hessen, Germany†	EC	45.2	60	1	0	0	27	7	0	58	0	7
122	133	PADECO CO. LTD., Tokyo, Japan	EC	45.2	100	3	0	0	0	0	0	44	0	2
123	125	SHAKER GROUP, Dubai, U.A.E.†	EC	44.1	94	41	13	21	0	0	5	13	0	5
124	**	SAMOO ARCHITECTS & ENGINEERS, Seoul, S. Korea	AE	43.3	25	14	78	0	0	0	0	7	0	0
125	118	HOCHTIEF AKTIENGESellschaft, Essen, NRW, Germany†	EC	43.0	47	23	0	7	0	7	5	56	0	0
126	129	STANLEY CONSULTANTS INC., Muscatine, Iowa, U.S.A.†	EA	41.8	22	22	0	36	0	21	0	22	0	0
127	**	NJS CO. LTD., Tokyo, Japan†	EC	41.6	28	0	0	0	36	58	0	0	0	0
128	132	YACHIYO ENGINEERING CO. LTD., Tokyo, Japan	E	41.0	23	2	0	22	22	12	0	12	0	22
129	136	DEWAN ARCHITECTS + ENGINEERS, Abu Dhabi, U.A.E.	AE	39.1	76	100	0	0	0	0	0	0	0	0
130	115	POPULOUS, Kansas City, Mo., U.S.A.†	A	38.7	21	100	0	0	0	0	0	0	0	0
131	130	HKS, Dallas, Texas, U.S.A.	A	38.6	10	100	0	0	0	0	0	0	0	0
132	147	TPF GETINSA PAYMA, Madrid, Spain†	EC	38.5	63	10	0	0	7	3	0	80	0	0
133	137	GHAFFARI ASSOCIATES, Dearborn, Mich., U.S.A.	EA	37.7	26	0	53	0	0	0	0	47	0	0
134	126	GEODATA ENGINEERING SPA, Torino, Italy†	E	36.7	94	0	0	0	37	8	0	56	0	0
135	138	ARCHITECTURE & PLANNING GROUP, Abu Dhabi, U.A.E.	AE	36.6	75	100	0	0	0	0	0	0	0	0
136	164	GANNETT FLEMING, Camp Hill, Pa., U.S.A.	EA	36.2	10	0	0	0	2	0	0	98	0	0
137	131	GEOSYNTEC CONSULTANTS INC., Atlanta, Ga., U.S.A.†	E	36.1	13	0	0	9	0	0	23	0	67	0
138	219	CHINA RAILWAY CONSTRUCTION CORP. LTD., Beijing, China†	EC	36.0	1	0	0	0	0	3	0	94	0	0
139	144	JGC CORP., Yokohama, Japan†	EC	36.0	56	0	0	28	0	0	72	0	0	0
140	111	KLEINFELDER, San Diego, Calif., U.S.A.†	EA	35.0	12	9	3	2	5	0	77	0	2	0
141	106	CHINA HUANQIU CONTRACTING & ENGINEERING CORP. LTD., Beijing, China†	EC	34.9	15	0	0	0	0	0	100	0	0	0
142	**	TAUW GROUP, Deventer, The Netherlands	E/ENV	34.8	32	0	0	0	0	0	100	0	0	0
143	102	BURNS & MCDONNELL, Kansas City, Mo., U.S.A.	EAC	34.8	3	29	3	54	1	0	1	13	0	0
144	**	KIEWIT CORP., Omaha, Neb., U.S.A.†	EC	34.6	9	0	0	99	0	0	0	0	1	0
145	146	TTCL PUBLIC CO. LTD., Bangkok, Thailand†	EC	34.0	63	0	0	6	26	0	68	0	0	0
146	141	CHODAI GROUP, Tokyo, Japan†	EC	33.5	15	4	0	4	0	2	0	81	0	0
147	134	PCG PROFABRIL CONSULPLANO GLOBAL SA, Lisbon, Portugal†	EC	32.1	79	13	0	0	5	5	35	42	0	0
148	**	CCDI GROUP, Shanghai, China	AE	30.6	12	0	0	0	0	0	0	0	0	0
149	**	WONG TUNG & PARTNERS LTD., Hong Kong, China†	A	28.9	70	100	0	0	0	0	0	0	0	0
150	212	CHINA METALLURGICAL GROUP CORP., Beijing, China†	EA	28.2	4	0	0	0	0	0	91	0	0	0
151	143	KUNHWA ENGINEERING & CONSULTING CO. LTD., Seoul, S. Korea	E	28.2	19	0	0	3	21	19	0	43	0	0
152	155	JAN DE NUL GROUP (SOFIDRA SA), Capellen, Luxembourg†	O	28.0	100	7	0	0	0	0	11	36	0	0
153	**	CHINA RAILWAY DESIGN CORP., Beijing, China†	EC	27.8	4	0	0	0	0	4	0	95	0	0

RANK 2017	2016	FIRM	FIRM TYPE	2016 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL.	% OF TOTAL REV.									
154	**	INTEGRAL GROUP, Oakland, Calif., U.S.A.	E	25.8	51	73	3	0	0	0	1	1	0	1
155	128	ECOLOGY AND ENVIRONMENT INC., Lancaster, N.Y., U.S.A.†	ENV	25.6	24	0	0	33	2	0	54	2	0	2
156	**	SU YAPI ENGINEERING AND CONSULTING INC., Ankara, Turkey	EC	25.4	74	0	0	0	7	3	90	0	0	0
157	171	MOFFATT & NICHOL, Long Beach, Calif., U.S.A.†	E	24.3	17	0	0	0	0	0	0	100	0	0
158	127	ADRIAN SMITH + GORDON GILL ARCHITECTURE, Chicago, Ill., U.S.A.	A	23.8	91	100	0	0	0	0	0	0	0	0
159	176	YOOSHIN ENGINEERING CORP., Seoul, S. Korea	EC	23.5	14	0	0	5	30	0	0	61	0	0
160	189	SUNJIN ENGINEERING & ARCHITECTURE, Gyeonggi-do, S. Korea	EC	23.0	21	16	0	0	0	0	0	0	0	0
161	**	ARQUITECTONICA, Miami, Fla., U.S.A.	A	23.0	33	98	0	0	0	0	0	2	0	0
162	**	DAY & ZIMMERMANN, Philadelphia, Pa., U.S.A.†	AE	22.9	22	100	0	0	0	0	0	0	0	0
163	154	ARABTECH JARDANEH, Amman, Jordan†	EA	22.7	70	77	0	0	12	2	1	6	2	0
164	142	NBBJ, Seattle, Wash., U.S.A.†	A	22.7	14	100	0	0	0	0	0	0	0	0
165	159	IPS-INTEGRATED PROJECT SERVICES LLC, Blue Bell, Pa., U.S.A.†	EA	22.1	21	0	0	0	0	0	100	0	0	0
166	145	RCM TECHNOLOGIES INC., Pennsauken, N.J., U.S.A.†	E	21.9	30	0	0	100	0	0	0	0	0	0
167	160	CES CONSULTING ENGINEERS SALZGITTER GMBH, Braunschweig, Germany†	EC	21.7	100	19	0	0	53	26	0	2	0	0
168	177	3TI PROGETTI, Rome, Italy†	EA	21.0	75	20	0	0	0	0	0	80	0	0
169	139	CANNONDESIGN, Grand Island, N.Y., U.S.A.	AE	20.8	11	100	0	0	0	0	0	0	0	0
170	157	CONSOLIDATED CONSULTANTS GROUP, Amman, Jordan	AE	20.8	74	54	0	0	11	7	1	20	0	0
171	140	POWER ENGINEERS INC., Hailey, Idaho, U.S.A.	EA	20.8	5	0	0	96	0	0	4	0	0	0
172	167	KOREA ENGINEERING CONSULTANTS CORP., Seoul, S. Korea	EC	20.1	11	0	0	9	35	4	0	50	0	0
173	163	SHENYANG YUANDA ALUMINUM INDUS. ENG'G CO. LTD., Shenyang, China†	EC	19.5	64	100	0	0	0	0	0	0	0	0
174	166	TATA CONSULTING ENGINEERS LTD., Mumbai, Maharashtra, India†	EC	19.5	40	0	0	75	4	0	12	0	0	0
175	165	SHELADIA ASSOCIATES INC., Rockville, Md., U.S.A.	EA	19.1	81	2	0	0	16	0	0	82	0	0
176	184	SETS, Beirut, Lebanon	EC	17.6	99	3	0	2	3	0	0	89	0	1
177	181	JENSEN HUGHES INC., Baltimore, Md., U.S.A.†	E	17.5	12	37	2	2	0	0	0	2	0	0
178	186	AMG AL AMAR CONSULTING GROUP SA, Cairo, Egypt†	EA	17.4	69	78	5	3	5	5	0	2	0	1
179	**	IRD ENGINEERING SRL, Rome, Italy	EC	16.5	98	14	0	0	4	0	0	82	0	0
180	156	KAJIMA CORP., Tokyo, Japan†	EAC	16.2	10	17	25	2	0	0	53	0	0	1
181	196	MERRICK & CO., Greenwood Village, Colo., U.S.A.	EA	16.0	13	53	16	6	0	0	0	0	0	0
182	**	NV5 GLOBAL INC., Hollywood, Fla., U.S.A.†	E	16.0	5	95	0	0	0	0	3	0	0	3
183	185	SHAPOORJI PALLONJI AND CO. PVT. LTD., Mumbai, Maharashtra, India†	EC	14.2	68	100	0	0	0	0	0	0	0	0
184	218	LEIDOS, Reston, Va., U.S.A.	EA	14.1	2	0	50	50	0	0	0	0	0	0
185	203	ME ENGINEERS, Golden, Colo., U.S.A.	E	14.1	27	100	0	0	0	0	0	0	0	0
186	179	POSCO ENGINEERING & CONSTRUCTION, Incheon, S. Korea†	EC	13.8	43	2	0	0	0	0	77	21	0	0
187	198	SALFO AND ASSOCIATES SA, Athens, Greece†	EA	13.7	94	36	0	0	2	1	9	32	0	0
188	175	ROBERT A.M. STERN ARCHITECTS, New York, N.Y., U.S.A.	A	13.6	19	97	0	0	0	0	0	0	0	0
189	191	GP STRATEGIES, Columbia, Md., U.S.A.	E	13.1	38	0	0	0	0	0	0	0	0	0
190	**	PACIFIC CONSULTANTS CO. LTD., Tokyo, Japan	E	13.0	3	0	0	0	23	0	0	38	0	0
191	**	CHA CONSULTING INC., Albany, N.Y., U.S.A.†	EA	12.9	5	0	72	28	0	0	0	0	0	0
192	202	REBEL DESIGN+GROUP, Marina Del Rey, Calif., U.S.A.	A	12.8	50	100	0	0	0	0	0	0	0	0
193	197	STUDIOS ARCHITECTURE, Washington, D.C., U.S.A.	A	12.8	18	100	0	0	0	0	0	0	0	0
194	**	COBA - ENGINEERING & ENVIRONMENTAL CONSULTANTS, Lisbon, Portugal	EC	12.7	87	0	0	50	41	1	0	9	0	0
195	**	POND, Peachtree Corners, Ga., U.S.A.	AEC	12.6	12	0	0	0	0	0	100	0	0	0
196	**	KARN CHARUHAS CHAPMAN & TWOHEY (KCCT), Washington, D.C., U.S.A.	A	12.5	64	100	0	0	0	0	0	0	0	0
197	193	TEMELSU INTERNATIONAL ENGINEERING SERVICES INC., Ankara, Turkey	EC	12.3	50	0	0	4	3	14	0	35	0	0
198	**	HUSSEIN SABBOUR CONSULTANT BUREAU (HSCB), Cairo, Egypt	EC	12.0	24	70	0	5	8	14	0	0	0	3
199	201	CUNINGHAM GROUP ARCHITECTURE INC., Minneapolis, Minn., U.S.A.	A	11.4	16	100	0	0	0	0	0	0	0	0
200	153	WALDEMAR S. NELSON AND CO. INC., New Orleans, La., U.S.A.	EA	11.2	19	0	0	0	0	0	10	0	0	0
201	**	DAR AL OMRAN, Amman, Jordan†	AE	11.1	52	94	0	0	1	3	0	3	0	0
202	199	DBA GROUP, Villorba, Italy†	EA	11.0	24	0	0	0	0	0	0	36	0	64
203	200	PUNJ LLOYD LTD., Gurgaon, Haryana, India†	EC	11.0	85	0	0	0	0	0	100	0	0	0
204	**	YANJIAN GROUP CO. LTD., Yantai, Shandong, China†	EC	10.8	100	100	0	0	0	0	0	0	0	0

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PADECO CO. LTD. is general consultant on the \$4-billion Mumbai Metro Line 3 project, the first fully underground rail line in India.

RANK 2017	2016	FIRM	FIRM TYPE	2016 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL	% OF TOTAL REV.									
205	190	GOETTSCH PARTNERS , Chicago, Ill., U.S.A.	A	10.6	43	100	0	0	0	0	0	0	0	0
206	**	STV GROUP INC. , New York, N.Y., U.S.A.†	EA	10.6	3	0	0	0	0	0	0	100	0	0
207	**	HEERIM ARCHITECTS & PLANNERS CO. LTD. , Seoul, S. Korea	AP	10.3	13	80	0	0	0	0	0	20	0	0
208	168	ZGF ARCHITECTS LLP , Portland, Ore., U.S.A.	A	10.3	7	93	0	0	0	0	0	1	0	0
209	209	YUKSEL PROJE ULUSLARARASI AS , Ankara, Turkey†	EA/GE	10.3	17	0	0	0	0	0	0	98	0	0
210	211	ZAS ARCHITECTS INC. , Dubai, U.A.E.†	A	10.2	55	100	0	0	0	0	0	0	0	0
211	192	LANGAN ENG'G, ENVIRO., SVYG. & LANDS. ARCH. , Parsippany, N.J., U.S.A.†	E	10.1	4	90	0	0	0	0	0	10	0	0
212	**	DISTANCE STUDIO CONSULTANTS , Giza, Egypt	AE	10.1	97	97	0	0	0	0	3	0	0	0
213	161	ENERCON SERVICES INC. , Kennesaw, Ga., U.S.A.	EA	10.0	4	0	0	100	0	0	0	0	0	0
214	187	ENGLOBAL , Houston, Texas, U.S.A.	E	10.0	15	0	0	0	0	0	100	0	0	0
215	195	SSOE GROUP , Toledo, Ohio, U.S.A.†	EA	9.7	7	3	82	0	0	0	16	0	0	0
216	180	AMBITECH ENGINEERING CORP. , Downers Grove, Ill., U.S.A.	EC	9.5	8	0	0	0	0	0	100	0	0	0
217	**	SASAKI , Watertown, Mass., U.S.A.	EAL	9.3	15	100	0	0	0	0	0	0	0	0
218	188	SUMITOMO MITSUI CONSTRUCTION CO. LTD. , Tokyo, Japan†	EC	9.1	82	0	57	0	0	0	0	43	0	0
219	205	MG2 , Seattle, Wash., U.S.A.	A	9.1	19	100	0	0	0	0	0	0	0	0
220	207	ENGINEERING FOR PETROLEUM & PROCESS INDUS. "ENPPI" , Cairo, Egypt†	EC	9.0	3	0	0	0	0	0	100	0	0	0
221	**	SHANGDONG DEJIAN GROUP CO. LTD. , Dezhou City, Shandong, China	AE	8.7	83	100	0	0	0	0	0	0	0	0
222	**	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD. , Beijing, China	AE	8.6	1	72	0	0	20	5	0	3	0	0
223	210	PYUNHWA ENGINEERING CONSULTANTS LTD. , Gyeonggi-do, S. Korea	E	8.2	19	0	0	2	2	1	0	95	0	0
224	208	TRC COS. INC. , Lowell, Mass., U.S.A.†	E	8.2	1	0	0	7	0	0	21	37	35	0
225	214	ENGICON , Amman, Jordan	EAL	7.9	46	15	0	0	44	24	0	14	0	1



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Where To Find the Top 225

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Assystem	89	Engineering for the Petroleum & Process Industries "Enppi"	220	ME Engineers	185	SNC-Lavalin Inc.	20
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CHA Consulting Inc.	191	HKS	131	Parsons	39	Temelsu International Engineering Services Inc.	197
China Aluminum International Engineering Corp. Ltd.	112	HOCHTIEF Aktiengesellschaft	125	PCG Profabril Consulpano Global SA	147	Tetra Tech Inc.	21
China Chengda Engineering Co. Ltd.	69	HOK	92	Perkins Eastman	108	Thornton Tomasetti Inc.	117
China Communications Construction Group Ltd.	44	Hussein Sabbour Consultant Bureau (HSCB)	198	Petrofac Ltd.	22	TPF Getinsa Payma	132
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RANK 2017	RANK 2016	FIRM	FIRM TYPE	2016 REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL \$ MIL.	INT'L \$ MIL.									
1	1	AECOM, Los Angeles, Calif., U.S.A. [†]	EAC	7,430.0	3,410.0	20	0	7	7	4	2	40	18	0
2	2	POWER CONSTRUCTION CORP. OF CHINA, Beijing, China [†]	EC	7,300.5	1,090.6	0	0	94	1	0	0	0	0	2
3	3	JACOBS, Dallas, Texas, U.S.A.	EAC	6,387.3	2,946.0	13	2	3	2	1	38	22	15	2
4	**	CHINA ENERGY ENGINEERING CORP. LTD., Beijing, China [†]	EC	6,193.0	644.8	2	0	96	0	0	2	0	0	0
5	4	WSP, Montreal, Quebec, Canada [†]	EC	5,012.3	4,070.9	29	1	6	1	2	6	50	2	1
6	5	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD., Beijing, China [†]	EC	4,169.3	353.7	0	0	1	0	0	0	98	0	0
7	7	ARCADIS NV, Amsterdam, The Netherlands [†]	EC	3,715.0	3,369.0	36	1	3	8	2	3	9	16	0
8	8	CH2M, Englewood, Colo., U.S.A. [†]	E	3,551.2	1,309.3	0	5	0	14	19	14	33	15	0
9	9	FLUOR CORP., Irving, Texas, U.S.A. [†]	EC	3,293.6	2,071.4	0	2	3	0	0	85	0	10	0
10	19	STANTEC INC., Edmonton, Alberta, Canada [†]	A	3,020.5	2,122.0	22	0	8	15	16	11	21	2	1
11	11	WS ATKINS PLC, Epsom, Surrey, U.K. [†]	EA	2,828.2	1,553.3	26	1	19	6	0	2	47	0	0
12	6	WORLEYPARSONS, North Sydney, NSW, Australia	EC	2,672.0	2,372.0	1	0	11	0	0	78	4	1	0
13	18	TETRA TECH INC., Pasadena, Calif., U.S.A.	E	2,645.0	837.0	1	1	9	40	9	13	9	18	0
14	16	CHINA RAILWAY CONSTRUCTION CORP. LTD., Beijing, China [†]	EC	2,594.0	36.0	26	4	0	4	0	0	61	0	0
15	15	DAR GROUP, Dubai, U.A.E. [†]	EA	2,275.2	2,275.2	49	0	3	2	3	4	39	0	1
16	14	CB&I LLC, The Woodlands, Texas, U.S.A. [†]	EC	2,217.0	625.7	0	0	10	1	0	82	2	3	0
17	17	MOTT MACDONALD, Croydon, Surrey, U.K. [†]	EC	2,160.7	1,299.9	16	0	12	7	10	15	34	1	1
18	12	SNC-LAVALIN INC., Montreal, Quebec, Canada [†]	EC	2,009.8	883.9	7	0	28	1	0	30	19	2	0
19	13	FUGRO NV, Leidschendam, The Netherlands [†]	GE	1,953.0	1,778.0	12	0	9	3	0	68	4	0	3
20	10	AMEC FOSTER WHEELER, Atlanta, Ga., U.S.A. [†]	EC	1,936.0	908.0	12	6	14	4	3	32	9	8	0
21	27	SWECO AB, Stockholm, Sweden [†]	EA	1,932.0	1,199.0	34	2	9	4	5	9	33	1	0
22	21	HDR, Omaha, Neb., U.S.A. [†]	EA	1,927.6	169.0	21	0	10	10	10	1	46	1	0
23	35	KBR, Houston, Texas, U.S.A. [†]	EC	1,916.0	958.0	0	0	11	4	0	52	12	0	0
24	24	ARUP, London, U.K. [†]	E	1,776.3	1,220.6	39	3	4	2	2	5	38	1	2
25	23	CHINA RAILWAY GROUP LTD., Beijing, China [†]	EA	1,767.8	132.7	8	0	0	0	0	0	67	0	0
26	25	TECNICAS REUNIDAS, Madrid, Spain	EC	1,622.2	1,522.8	0	0	7	1	0	91	1	0	0
27	20	BECHTEL, San Francisco, Calif., U.S.A. [†]	EC	1,597.0	724.0	0	0	8	0	0	51	13	19	8
28	26	RAMBOLL GRUPPEN A/S, Copenhagen S, Denmark [†]	E	1,571.0	1,159.4	31	0	9	1	6	7	25	19	0
29	22	PARSONS, Pasadena, Calif., U.S.A. [†]	EC	1,508.0	450.0	5	0	0	3	1	1	71	14	3
30	31	BLACK & VEATCH, Overland Park, Kan., U.S.A. [†]	EC	1,378.7	408.2	3	0	47	17	13	7	0	1	11
31	29	BURNS & MCDONNELL, Kansas City, Mo., U.S.A.	EAC	1,306.0	34.8	5	3	55	2	4	16	9	4	1
32	32	AF GROUP, Stockholm, Sweden [†]	E	1,302.4	327.4	16	27	17	0	0	15	19	0	4
33	30	GHD, Sydney, NSW, Australia [†]	EA/ENV	1,229.8	739.3	21	0	3	14	9	6	22	15	0
34	37	INTERTEK-PSI, Arlington Heights, Ill., U.S.A. [†]	E	1,195.9	584.6	18	5	14	0	1	53	6	2	1
35	34	GENSLER, San Francisco, Calif., U.S.A.	A	1,192.4	211.4	93	0	0	0	0	0	5	0	1
36	**	EGIS, Saint-Quentin-en-Yvelines, France [†]	EC	1,131.9	715.0	16	0	3	5	1	1	75	0	0
37	**	CHINA STATE CONSTRUCTION ENGINEERING CORP. LTD., Beijing, China	AE	1,103.5	8.6	71	0	0	6	10	0	13	0	0
38	42	HNTB COS., Kansas City, Mo., U.S.A.	EA	1,028.8	0.8	2	0	0	2	1	0	95	0	0
39	36	CARDNO LTD., Brisbane, Queensland, Australia [†]	EC	903.4	568.3	0	0	0	0	0	0	0	0	0
40	**	GOLDER ASSOCIATES CORP., Palm Beach Gardens, Fla., U.S.A. [†]	E	897.2	684.6	11	5	7	2	6	25	17	0	1
41	41	HYUNDAI ENGINEERING CO. LTD., Seoul, S. Korea	EC	861.3	748.0	4	3	17	1	3	68	3	0	0
42	46	COWI A/S, Kongens Lyngby, Denmark [†]	EC	842.1	576.9	22	0	0	5	10	0	51	1	0
43	**	TECHNIP, Paris, France [†]	EC	824.0	775.0	0	0	0	0	0	100	0	0	0
44	55	PETROFAC LTD., Jersey, Channel Islands, U.K. [†]	EC	803.0	803.0	0	0	0	0	0	100	0	0	0
45	69	SURBANA JURONG PRIVATE LTD., Singapore [†]	EC	781.0	498.0	47	0	8	4	0	1	36	2	0
46	33	HATCH LTD., Mississauga, Ontario, Canada [†]	EC	775.0	351.0	0	0	12	4	0	54	22	0	0
47	43	SINOPEC ENGINEERING (GROUP) CO. LTD., Beijing, China [†]	EC	735.0	157.4	0	0	0	0	0	100	0	0	0
48	48	AURECON, Melbourne, Victoria, Australia	EC	727.2	332.1	30	3	7	4	0	7	30	0	5
49	57	KIMLEY-HORN, Raleigh, N.C., U.S.A.	E	722.3	1.5	42	0	1	4	3	0	51	0	0
50	71	LEIDOS, Reston, Va., U.S.A.	EA	713.5	14.1	0	4	30	0	0	0	0	66	0

RANK 2017	RANK 2016	FIRM	FIRM TYPE	2016 REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL \$ MIL.	INT'L \$ MIL.									
51	47	SYSTRA , Paris, France†	EC	707.6	426.0	0	0	0	0	0	0	100	0	0
52	61	TRC COS. INC. , Lowell, Mass., U.S.A.†	E	707.2	8.2	4	0	33	0	0	22	13	26	0
53	49	CDM SMITH , Boston, Mass., U.S.A.†	EC	691.5	139.5	2	0	2	20	33	1	25	17	0
54	64	NIPPON KOEI GROUP , Tokyo, Japan†	EC	666.6	227.3	1	0	4	13	7	0	36	0	3
55	50	ROYAL HASKONINGDHV , Amersfoort, The Netherlands†	EC	664.9	342.2	25	1	5	15	8	4	40	0	2
56	**	CHINA RAILWAY DESIGN CORP. , Beijing, China†	EC	662.3	27.8	0	0	0	0	0	0	100	0	0
57	52	TRACTEBEL ENGINEERING SA , Brussels, Belgium†	EC	658.5	429.3	5	0	82	0	0	5	8	0	0
58	51	BUREAU VERITAS , Fort Lauderdale, Fla., U.S.A.†	E	645.5	212.6	15	10	6	13	1	37	5	6	0
59	58	CHINA METALLURGICAL GROUP CORP. , Beijing, China†	EA	637.4	28.2	16	0	6	0	0	50	9	15	0
60	54	LOUIS BERGER , Morristown, N.J., U.S.A.†	EAP	628.5	304.3	3	0	11	10	1	4	56	10	0
61	28	WOOD GROUP , Houston, Texas, U.S.A.†	EC	615.7	78.5	0	1	0	0	0	99	0	0	0
62	63	TERRACON CONSULTANTS INC. , Olathe, Kan., U.S.A.†	E	602.5	1.9	41	2	9	3	2	5	13	17	2
63	99	SENER INGENIERIA Y SISTEMAS SA , Las Arenas (Getxo), Vizcaya, Spain†	EA	600.5	580.5	0	0	71	0	0	4	25	0	0
64	67	LARSEN & TOUBRO LTD. , Mumbai, Maharashtra, India†	EC	600.3	497.5	5	68	2	0	0	17	8	0	0
65	59	CHINA NATIONAL MACHINERY INDUSTRY CORP. , Beijing, China†	EC	591.2	168.2	31	12	35	3	1	7	5	1	0
66	56	POYRY , Vantaa, Finland†	E	586.0	458.0	2	0	37	2	3	34	11	5	0
67	65	MAIRE TECNIMONT GROUP , Milan, Italy†	EC	537.8	450.5	1	0	5	0	0	92	2	0	0
68	68	MICHAEL BAKER INTERNATIONAL , Pittsburgh, Pa., U.S.A.†	EA	534.6	2.2	22	0	0	17	0	5	49	4	2
69	53	S&B ENGINEERS AND CONSTRUCTORS LTD. , Houston, Texas, U.S.A.†	EC	533.8	0.0	0	0	0	0	0	98	2	0	0
70	66	ARCPLUS GROUP PLC , Shanghai, China†	AE	507.4	55.0	100	0	0	0	0	0	0	0	0
71	78	EXP US SERVICES INC. , Chicago, Ill., U.S.A.	E	470.0	285.3	40	0	2	3	4	9	15	0	6
72	62	SARGENT & LUNDY LLC , Chicago, Ill., U.S.A.†	E	466.8	57.3	0	0	100	0	0	0	0	0	0
73	72	KHATIB & ALAMI , Beirut, Lebanon†	EA	455.9	441.0	51	0	3	13	6	2	15	0	0
74	60	CDI CORP. , Philadelphia, Pa., U.S.A.†	EA	452.3	119.5	9	10	10	0	0	58	10	0	1
75	98	JSTI GROUP , Nanjing, Jiangsu, China†	EC	447.5	105.5	1	0	1	3	16	0	76	0	0
76	105	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORP. , Beijing, China†	EC	440.9	219.0	0	0	0	0	0	100	0	0	0
77	74	ARTELIA , Lyon, France†	EC	431.0	145.7	41	2	3	11	5	12	23	2	0
78	73	HOK , St. Louis, Mo., U.S.A.	AE	430.0	105.9	87	0	0	0	0	0	13	0	0
79	**	TONGJI ARCHITECTURAL DESIGN (GROUP) CO. LTD. , Shanghai, China†	A	426.8	1.6	76	2	0	1	2	0	15	0	1
80	96	ORIENTAL CONSULTANTS GLOBAL (ACKG LTD.) , Tokyo, Japan†	EC	424.1	128.5	3	0	0	7	4	0	61	0	0
81	79	STV GROUP INC. , New York, N.Y., U.S.A.†	EA	414.3	10.6	16	0	0	0	0	0	84	0	0
82	81	KIEWIT CORP. , Omaha, Neb., U.S.A.†	EC	402.0	34.6	0	0	81	1	0	15	0	3	0
83	80	POWER ENGINEERS INC. , Hailey, Idaho, U.S.A.	EA	398.7	20.8	0	0	89	0	0	8	0	0	3
84	76	KEPCO ENG'G & CONSTRUCTION CO. INC. , Gyeongsangbuk-do, S. Korea	AE	388.0	106.2	0	0	99	0	0	0	0	1	0
85	90	PACIFIC CONSULTANTS CO. LTD. , Tokyo, Japan	E	383.0	13.0	4	0	0	17	9	1	50	0	1
86	82	HKS , Dallas, Texas, U.S.A.	A	376.7	38.6	100	0	0	0	0	0	0	0	0
87	84	DEWBERRY , Fairfax, Va., U.S.A.†	EA	375.0	2.8	39	0	4	15	6	0	32	1	3
88	91	BECA GROUP LTD. , Auckland, New Zealand†	EA	373.2	116.8	26	10	4	9	0	8	34	0	1
89	86	BROWN AND CALDWELL , Walnut Creek, Calif., U.S.A.†	E	362.0	0.0	0	0	0	22	52	0	0	26	0
90	**	IBI GROUP , Westerville, Ohio, U.S.A.†	AE	358.3	238.8	67	9	2	2	2	0	15	0	0
91	**	BEIJING URBAN CONSTRUCTION GROUP CO. LTD. , Beijing, China†	EC	352.9	0.0	2	0	0	0	0	0	98	0	0
92	94	GANNETT FLEMING , Camp Hill, Pa., U.S.A.	EA	351.5	36.2	4	0	6	13	4	3	68	3	0
93	83	SKIDMORE, OWINGS & MERRILL LLP , New York, N.Y., U.S.A.†	AE	339.9	141.0	87	0	0	0	0	0	13	0	0
94	89	ASSYSTEM , Paris, France†	EC	328.0	108.0	8	3	69	1	0	8	5	3	2
95	**	SAIPEM SPA , San Donato Milanese, Italy	EC	320.0	124.0	0	0	0	0	8	58	34	0	0
96	85	OPUS INTERNATIONAL CONSULTANTS LTD. , Wellington, New Zealand†	E	317.9	131.3	29	0	0	6	6	6	53	0	0
97	97	FICHTNER GROUP , Stuttgart, Germany†	EC	311.0	194.7	0	2	85	6	6	0	1	0	0
98	110	SHANGHAI URBAN CONSTRUCTION (GROUP) CORP. , Shanghai, China†	EC	305.8	0.0	6	0	0	11	16	0	64	0	0
99	95	AEGION CORP. , Chesterfield, Mo., U.S.A.	EC	304.0	124.0	3	0	1	0	14	78	3	0	0
100	141	NV5 GLOBAL INC. , Hollywood, Fla., U.S.A.†	E	301.6	16.0	44	0	19	5	2	2	20	8	1

RANK 2017	RANK 2016	FIRM	FIRM TYPE	2016 REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				TOTAL \$ MIL.	INT'L \$ MIL.									
101	103	SETEC, Paris, France†	EC	289.5	63.4	12	10	1	7	4	0	64	0	2
102	93	KLEINFELDER, San Diego, Calif., U.S.A.†	EA	284.0	35.0	10	2	12	9	16	26	21	2	1
103	**	CHINA CHENGDA ENGINEERING CO. LTD., Chengdu, Sichuan, China	EC	281.9	141.3	0	0	47	0	0	53	0	0	0
104	104	GEOSYNTEC CONSULTANTS INC., Atlanta, Ga., U.S.A.†	E	276.4	36.1	0	0	12	4	19	9	2	52	0
105	**	ENGINEERING FOR PETROLEUM & PROCESS INDUS. "ENPPI", Cairo, Egypt†	EC	271.5	9.0	0	0	0	0	0	100	0	0	0
106	112	GREENMAN-PEDERSEN INC. (GPI), Babylon, N.Y., U.S.A.	E	270.2	0.0	9	0	3	1	1	1	81	0	0
107	**	WL MEINHARDT GROUP PTY. LTD., Melbourne, Victoria, Australia†	EC	269.5	246.2	69	4	0	1	7	1	15	0	2
108	**	CCDI GROUP, Shanghai, China	AE	264.0	30.6	0	0	0	0	0	0	0	0	0
109	121	DOHWA ENGINEERING CO. LTD., Seoul, S. Korea	EC	259.8	64.1	2	0	17	20	15	0	25	0	0
110	101	ENERCON SERVICES INC., Kennesaw, Ga., U.S.A.	EA	251.5	10.0	0	0	98	0	0	2	0	0	0
111	107	TECNICA Y PROYECTOS SA (TYPESA), Madrid, Spain†	EA	249.0	215.0	18	0	8	13	7	0	50	0	0
112	127	CAROLLO ENGINEERS INC., Walnut Creek, Calif., U.S.A.	E	247.6	0.0	0	0	0	61	39	0	0	0	0
113	118	LANGAN ENG'G, ENVIRO., SVYG. & LANDS. ARCH., Parsippany, N.J., U.S.A.†	E	245.0	10.1	47	0	5	0	0	10	10	29	0
114	114	IDOM, Bilbao, Vizcaya, Spain	EA	244.0	195.2	10	4	29	2	3	22	27	0	3
115	116	CHA CONSULTING INC., Albany, N.Y., U.S.A.†	EA	241.0	12.9	28	25	13	1	4	6	21	2	0
116	117	THORNTON TOMASETTI INC., New York, N.Y., U.S.A.	EA	240.0	48.3	84	0	0	0	0	0	14	0	1
117	122	SMITHGROUPJJR, Detroit, Mich., U.S.A.	AE	235.9	5.4	100	0	0	0	0	0	0	0	0
118	131	JOHNSON, MIRMIRAN & THOMPSON INC., Hunt Valley, Md., U.S.A.	EA	234.5	0.0	7	0	0	0	5	0	88	0	0
119	109	GULF INTERSTATE ENGINEERING CO., Houston, Texas, U.S.A.†	EC	233.7	1.5	0	0	0	0	0	100	0	0	0
120	119	CHINA HUANQIU CONTRACTING & ENGINEERING CORP. LTD., Beijing, China†	EC	231.0	34.9	0	0	0	0	0	100	0	0	0
121	**	CHINA ALUMINUM INTERNATIONAL ENGINEERING CORP., Beijing, China†	EA	231.0	56.8	22	0	0	11	1	51	0	0	0
122	124	INGEROP, Rueil-Malmaison, France†	EC	228.3	49.2	28	18	0	3	0	0	51	0	0
123	113	ILF CONSULTING ENGINEERS, Rum/Innsbruck, Austria†	EC	223.3	187.1	4	0	11	18	3	40	21	0	0
124	115	CHODAI GROUP, Tokyo, Japan†	EC	223.1	33.5	4	0	4	0	2	0	81	0	0
125	140	HAZEN AND SAWYER, New York, N.Y., U.S.A.	E	218.0	5.6	0	0	0	31	69	0	0	0	0
126	147	CTCI CORP., Taipei, Taiwan†	EC	217.6	139.8	1	1	14	0	1	79	5	1	0
127	125	INGENIERIA Y ECONOMIA DEL TRANSPORTE SME MP SA, Madrid, Spain†	EC	217.0	57.7	0	0	0	0	0	0	100	0	0
128	106	ZACHRY GROUP, San Antonio, Texas, U.S.A.†	EC	216.4	0.3	0	0	85	0	0	14	0	0	0
129	133	PERKINS EASTMAN, New York, N.Y., U.S.A.†	A	215.0	60.2	100	0	0	0	0	0	0	0	0
130	128	TRANSYSTEMS, Kansas City, Mo., U.S.A.	E	212.5	0.0	0	0	0	0	0	0	100	0	0
131	138	RS&H INC., Jacksonville, Fla., U.S.A.†	EA	210.0	0.0	7	9	0	0	0	0	84	0	0
132	136	VHB, Watertown, Mass., U.S.A.	E	209.6	0.0	26	0	10	0	1	0	58	1	1
133	**	WILLDAN GROUP INC., Anaheim, Calif., U.S.A.	E	209.0	0.0	50	0	17	0	0	0	18	0	7
134	143	HARGROVE ENGINEERS + CONSTRUCTORS, Mobile, Ala., U.S.A.†	E	207.2	0.0	0	1	12	0	0	87	0	0	0
135	**	WOODARD & CURRAN, Portland, Maine, U.S.A.	ENV	205.5	0.0	2	2	5	18	38	12	1	21	0
136	145	KCI TECHNOLOGIES INC., Sparks, Md., U.S.A.†	EC	205.0	0.0	14	0	8	5	5	0	48	1	16
137	132	PM GROUP, Dublin, Ireland†	EA	203.7	104.4	2	6	3	0	0	80	0	0	5
138	135	RUMMEL, KLEPPER & KAHL LLP, Baltimore, Md., U.S.A.	E	199.1	0.0	2	0	0	3	9	2	85	0	0
139	111	TEBODIN BV, The Hague, The Netherlands	E	199.0	107.0	5	10	8	1	1	74	0	0	0
140	130	DORSCH HOLDING GMBH, Frankfurt, Germany†	EC	198.4	194.7	5	0	8	38	21	0	25	0	1
141	**	CORGAN, Dallas, Texas, U.S.A.	A	198.3	1.8	35	0	0	0	0	0	45	0	20
142	**	FIRST SURVEY & DESIGN INSTITUTE OF RAILWAY, Xi'an, Shaanxi, China†	EC	195.8	0.0	0	0	0	0	0	0	100	0	0
143	**	AEDAS, Hong Kong, China	A	193.4	189.3	82	0	0	0	0	0	18	0	0
144	139	STANLEY CONSULTANTS INC., Muscatine, Iowa, U.S.A.†	EA	192.6	41.8	9	0	43	8	6	0	34	0	0
145	108	CHIYODA CORP., Yokohama, Kanagawa, Japan†	EC	189.1	142.9	0	1	6	0	0	68	0	0	0
146	148	KOREA ENGINEERING CONSULTANTS CORP., Seoul, S. Korea	EC	187.9	20.1	0	0	24	19	21	0	19	0	0
147	120	CANNONDESIGN, Grand Island, N.Y., U.S.A.	AE	185.5	20.8	100	0	0	0	0	0	0	0	0
148	**	POPULOUS, Kansas City, Mo., U.S.A.†	A	184.7	38.7	100	0	0	0	0	0	0	0	0
149	142	AYESA, Sevilla, Spain	EC	184.0	124.6	5	0	4	21	6	12	44	0	4
150	**	ECS, Chantilly, Va., U.S.A.†	E	183.6	1.7	28	7	4	2	15	2	10	17	1

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