

# COMPANY PROFILE

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LETTER FROM THE FOUNDERS / HISTORY / WHO WE ARE / MISSION & VISION / SERVICES  
COMPANIES / SISTER COMPANIES / CERTIFICATES / ENR / ORGANIZATION CHART / ARCHITECTURE  
URBAN & REGIONAL PLANNING / ENVIRONMENTAL / TRANSPORTATION / STRUCTURAL  
ELECTRICAL UTILITIES / TELECOMMUNICATIONS / INDUSTRIAL / MECHANICAL / GSI / OFFICES

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## LETTER FROM THE FOUNDERS

Scientific and technological progress in our modern days has become one of the most important factors that govern the prosperity and sound economic development of any country, stabilizing its social structure and safeguarding its economic independence and national wealth from domination and abuse.

During our professional practice as engineers in the Arab World, we became aware of the scarcity of national consulting engineering firms that measure up to high international standards, and can undertake the much needed technical studies in the fields of: Architecture; Civil, Mechanical, Electrical, Industrial and other engineering areas.

Conversely, the Arab World is a knowledge source of highly qualified manpower such as architects, engineers and technicians graduated from the best Arab and Foreign Universities; thus in 1959 Consolidated Engineering Company was founded to provide these highly qualified specialists with the adequate opportunity to apply their know-how in the development and service of their countries.

Based on the principles we have adopted, and on the support and appreciation we have so far received in Lebanon and the rest of the Arab World, we are full of confidence that our organization will continue to develop and grow enabling us to achieve our national professional aspirations.

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## HISTORY

K&A was established in Feb 1964 by founders (Prof. Mounir Khatib and Dr. Zuheir Alami) who had a vision. This vision was to create a large and leading international company. The founders believed hard work would make this a reality and wanted to leave a legacy for future generations of professionals. Today K&A is a success story built on shared values and ambition. World-renowned and recognized for excellence in the industry, K&A has grown substantially over the years. Starting as an architecture firm, K&A diversified, constantly following the market. For almost half a century, K&A has been reinforcing its international presence, expanding its in-house expertise and enlarging its scope of consultancy services.

### Geographical Expansion

From modest beginnings in Lebanon, K&A is now present in many geographical locations. By 1980 we were operating not just in Lebanon but also in the Kingdom of Saudi Arabia, the United Arab Emirates, the Sultanate of Oman and the Kingdom of Bahrain. Just 10 years later we extended our reach to all the Gulf and Arab countries. In the last five years, Iraq, Belgium, Kazakhstan, Tajikistan, Turkmenistan and Africa have become part of our international market. K&A provides engineering and architecture consultancy services that go beyond borders. Our expansion ensures we offer local insight coupled with high international standards.

### Growth of Expertise

From just architecture to a full-fledged multidisciplinary consultancy firm, K&A's expertise has grown. Over the years we have built on in-deep technical know-how to become a leading consultant in architecture and engineering services; urban and regional planning; water and environmental engineering; transportation and traffic; industrial; power and electrical utilities; telecommunication; construction and project management; and Geographic Information Systems solutions. And the evolution of our expertise hasn't stopped. We are committed to developing our in-house expertise to address your changing needs and those of the community at large.

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## HISTORY

### **Always at the Forefront of Technology**

Since the introduction of a complete computer center in 1979, K&A's dedication to the latest technology has been clear. In 1988 K&A became a pioneer at the cutting-edge of technology with the introduction of the Geographic Information Systems technology (GIS) to the Middle East. 2009 saw other notable achievements including the installation of a corporate data center in Frankfurt (Germany) through which all applications and services are securely published and accessed worldwide. As new technology emerges, we will embrace the most effective, relevant and beneficial to ensure better services and results.

### **Moving up the ranks of the "Top 100 ENR International Design Firms"**

Since 1984, K&A has been recognized for its excellence by being continuously ranked among the top 100 international design firms in Engineering News Record (ENR), a respected reference in the field. Over the last five years, we have joined the top 50 international architecture and engineering firms.

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## WHO WE ARE

**Khatib & Alami (K&A)** is a multidisciplinary urban and regional planning, architectural and engineering consulting company. With a history of success and a network of branches and sister companies, we provide you with an integrated approach to reliable project delivery in the evolving globalized world. Proactive rather than reactive, we are at the forefront of new specialties and advantageous alliances. We are here to enhance people's lifestyle and the economy through our services. Our services are distinctive because they are continuous. Our adaptability and the solid communication between branches mean we deliver results against all odds and external challenges.

The level of service and anticipation of market trends are what shape us. Why? Because we are dedicated to making sure you are satisfied no matter how large or small your project is. We also focus on what society really needs and hence pay special attention to the environment and communities.

Khatib & Alami services are all in-house, covering a broad spectrum from architecture to urban, transportation, energy, water, and oil & gas projects. This means we can enhance infrastructure, create new buildings, develop neighborhoods, and reshape entire cities.

Khatib & Alami currently operates in the Middle East and North Africa (MENA), Commonwealth of Independent States, Western Europe, and North America regions with 8 regional offices and numerous branches that bring together over 30 nationalities and more than 4,300 employees. We are ranked among ENR'S Top 100 International Design Firms in the world.

## WHO WE ARE



## MISSION



**Khatib & Alami** is committed to the continuous improvement of its professional services; and endeavours to provide opportunities for highly qualified professionals to apply their know-how towards the development and service of society with the highest levels of professional integrity and commitment.

## VISION



To continuously improve its world-wide rating among the top architectural and engineering consulting firms, pioneer state of the art technological solutions and provide the best professional service value regardless of project size or profitability.

## SERVICES

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With 50 years of experience in handling major projects, Khatib & Alami provides client-oriented professional services, based on international standards, codes, procedures and more, a commitment for excellence. Khatib & Alami's expertise leaves it unparalleled in the region for skills, quality and leadership.

**The services cover a wide range of activities and include:**

- Preparation of Master Plans
- Preparation of Urban Development Schemes
- Preparation of Feasibility Studies
- Environmental Impact Studies
- Preliminary Designs
- Detailed Working Drawings
- Technical Specifications
- Bills of Quantities
- Conditions of Contracts
- Analysis of Tenders
- Construction Management
- Renovation of old buildings
- Project Management
- Supervision of Construction
- Preparation of Interim and Final Payments
- Control of Materials Testing
- Plant Utilization and Cost Control
- Provisional and Final Taking Over of Projects
- Systems Design and Integration
- GIS Analysis
- Database Design, Modeling and Development
- Application Design and Development
- System Engineering
- Training and Support
- Simulation and Modelling

*The services of the firm are exclusively restricted to consulting activities thus having no direct or indirect interest in construction contracting, materials manufacture or supply, or trade of any kind.*



## COMPANIES

### KHATIB & ALAMI GROUP OF COMPANIES

- Khatib & Alami - Consolidated Engineering Company S.A.L – Lebanon
- Saudi Consolidated Engineering Company (Khatib & Alami) – Kingdom of Saudi Arabia
- Khatib & Alami - Consolidated Engineering Company – United Arab Emirates
- Khatib & Alami - Consolidated Engineering Company – Bahrain
- Khatib & Alami and Partners – Sultanate of Oman
- Khatib & Alami Consolidated Engineering Company – Qatar
- Khatib & Alami Consolidated Engineering Company – Palestine
- Khatib & Alami Consolidated Engineering Company S.A.R.L – Morocco
- Khatib & Alami - ASA Engineering Consultants – Egypt
- K&A Consultants S.A.E. – Egypt
- K&A Consultants S.A.E. – Libya
- Khatib & Alami Engineering Consultants Limited – Sudan
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Algeria
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Iraq
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Kurdistan Region
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Kuwait
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Lebanon
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Jordan
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Syria
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Kazakhstan
- Khatib & Alami - Consulting Engineers - Offshore S.A.L – Ethiopia
- KA Engineering Europe S.A. – Gabon
- KA Engineering Europe – Belgium

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## **SISTER COMPANIES**

### **American Consolidated Engineering Company, Inc. (AmeriCEC) – USA**

AmeriCEC was established as a sister company to Khatib & Alami in September 2001. AmeriCEC is a USA-based General Consulting Engineering and GIS Services Company, incorporated in Delaware and headquartered in California's Silicon Valley (Red Wood City). AmeriCEC offers the public and private sectors comprehensive integrated planning, design, implementation, and construction management services in multi-disciplinary engineering and geographic information systems (GIS) in the infrastructure and industrial fields.

### **ArabiaGIS – Lebanon**

ArabiaGIS was established in March 2001, owned and managed by Khatib & Alami Consolidated Engineering Company and Automation & Computer Technologies for the purpose of e-mapping commerce. ArabiaGIS aims at commercializing Geographic Information by providing a wide range of products and services for Consumers, Businesses, Professionals, and Intellectuals.

### **ESRI Holding (ESRI-Lebanon/ ESRI-Muscat)**

In 2006, Khatib & Alami elevated its presence in the Middle East as a leading GIS solutions provider by joining with ESRI Inc. to form a new entity, that of ESRI Holding - Lebanon. Under the management of this holding company, two local companies have been established - ESRI Lebanon and ESRI Muscat - operating in Lebanon and the Sultanate of Oman respectfully. The main responsibilities of these companies encompass the sale, technical support and training of ESRI software and other GIS related third party software products. In addition, these companies will provide a range of GIS Professional Services from project development through to project implementation. The ESRI Holding - Lebanon group of companies will solicit additional Professional Services from Khatib & Alami's Geospatial Services Department, Commercial & Public Sector Department and Utility & Energy Department as needed.

## CERTIFICATES



9001:2008  
Beirut / Lebanon



9001:2008  
Abu Dhabi / UAE



9001:2008  
Dubai / UAE



9001:2008  
Sharjah / UAE



9001:2008  
Muscat / Oman

## CERTIFICATES



9001:2008



18001:2007  
AI KHOBAR OFFICE



14001:2004



9001:2008  
Doha / Qatar



9001:2008  
Cairo / Egypt

## CERTIFICATES OF APPRECIATION & RECOGNITION







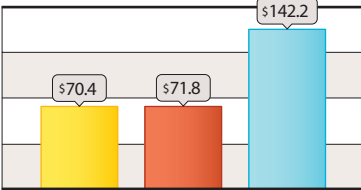
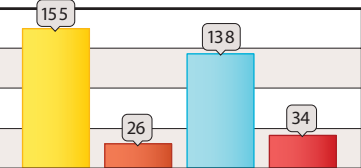
## ENR RANKING - JULY 2013

### TOP 225 INTERNATIONAL DESIGN FIRMS

RANK 2013	RANK 2012	FIRM	FIRM TYPE	2012 INT'L REVENUE		GENERAL BUILDING	MANUFACTURING	POWER	WATER SUPPLY	SEWER / WASTE	INDUS. / PETROLEUM	TRANSPORTATION	HAZARDOUS WASTE	TELECOM
				IN \$ MIL.	% OF TOTAL REV.									
53	54	KHATIB & ALAMI, Beirut, Lebanon†	EA	273.5	95	46	0	1	12	8	7	19	0	0
54	56	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD., Beijing, China†	EC	270.5	10	0	0	5	1	0	9	84	0	0
55	66	FICHTNER GMBH & CO. KG, Stuttgart, Germany†	E	256.0	77	0	0	80	6	13	1	0	0	0
56	63	WL MEINHARDT GROUP PTY LTD., Melbourne, Victoria, Australia†	E	247.7	95	47	5	2	9	10	1	23	0	3
57	58	SMEC, Melbourne, Victoria, Australia†	E	238.8	53	0	0	10	29	24	4	33	0	0
58	**	AEDAS, London, U.K.†	A	230.4	98	84	0	0	0	0	0	16	0	0
59	41	HYDROCHINA CORP., Beijing, China†	EC	212.6	9	0	0	95	5	0	0	0	0	0
60	59	NIPPON KOEI GROUP, Tokyo, Japan†	E	212.0	34	0	0	15	18	12	0	37	0	1
61	64	GENSLER, San Francisco, Calif., U.S.A.	A	202.1	25	94	0	0	0	0	0	3	0	3
62	71	CONESTOGA-ROVERS & ASSOC., Niagara Falls, N.Y., U.S.A.†	E	200.0	48	30	0	4	2	12	3	0	50	0
63	52	CHINA CHENGDA ENGINEERING CO. LTD., Chengdu, Sichuan, China	EC	197.2	22	0	0	74	0	0	26	0	0	0
64	61	ILF CONSULTING ENGINEERS, Rum/Innsbruck, Austria†	E	196.8	80	1	0	7	13	2	53	22	0	0
65	69	LAHMEYER INTERNATIONAL GMBH, Bad Vilbel, Germany†	E	193.6	91	0	0	88	5	6	0	0	0	0
66	67	KEPCO ENG'G & CONSTRUCTION CO. LTD., Yongin-si, Gyeonggi-do, S. Korea	AE	188.0	32	0	0	100	0	0	0	0	0	0
67	72	SEPCO ELECTRIC POWER CONSTRUCTION CORP., Jinan City, Shandong, China†	EA	188.0	94	0	0	100	0	0	0	0	0	0
68	55	SK ENGINEERING & CONSTRUCTION CO. LTD., Seoul, S. Korea†	EC	178.5	65	0	0	4	0	0	95	1	0	0
69	65	HOK, St. Louis, Mo., U.S.A.†	AE	176.7	43	78	0	0	0	0	0	22	0	0
70	74	IBI GROUP, Toronto, Ontario, Canada†	AE	172.9	47	57	6	0	0	1	0	31	0	0
71	76	SKIDMORE OWINGS & MERRILL LLP, New York, N.Y., U.S.A.†	AE	170.6	55	99	0	0	0	0	0	1	0	0
72	68	TEBODIN CONSULTANTS & ENGINEERS, The Hague, The Netherlands	E	169.0	57	0	0	0	0	0	0	0	0	0
73	53	GHD, Sidney, New South Wales, Australia†	E	167.2	16	19	0	1	21	23	0	28	5	0
74	93	HDR, Omaha, Neb., U.S.A.†	EA	161.2	10	72	0	6	2	3	0	16	1	0
75	77	CHINA NATIONAL MACHINERY INDUSTRY CORP., Beijing, China†	EC	156.7	44	5	2	61	2	0	24	3	0	2
76	75	BECA GROUP LTD., Auckland, New Zealand†	EA	154.8	46	19	15	12	11	0	24	15	0	0
77	92	TECNICA Y PROYECTOS SA (TYPESA), Madrid, Spain†	EA	152.0	68	23	0	5	25	6	0	41	0	0
78	85	CDI CORP., Philadelphia, Pa., U.S.A.†	EA	148.3	27	20	5	0	0	0	54	19	0	0
79	**	CHINA PETROLEUM ENGINEERING CO. LTD., Beijing, China†	EC	145.4	52	0	0	0	0	0	100	0	0	0
80	78	ASSOCIATED CONSULTING ENGINEERS, Amarousion, Greece†	A	143.0	94	32	0	3	10	29	5	19	1	1
81	97	CHIYODA CORP., Yokohama, Kanagawa Pref., Japan†	EC	143.0	85	0	0	0	0	0	97	0	0	0
82	73	IDOM, Madrid, Spain†	EA	140.8	56	3	3	54	1	2	10	12	0	2
83	83	ARTELIA, Lyon, France†	E	138.5	35	24	1	4	12	3	35	20	0	1
84	82	CDM SMITH, Cambridge, Mass., U.S.A.†	EC	136.3	18	11	0	3	18	15	4	29	21	0
85	89	EPTISA, Madrid, Spain†	E	126.7	70	6	0	7	47	11	0	25	5	0
86	79	KOHN PEDERSEN FOX ASSOCIATES PC, New York, N.Y., U.S.A.†	A	122.3	79	87	0	0	0	0	0	13	0	0
87	104	CHINA HUANQIU CONTRACTING & ENGINEERING CORP., Beijing, China†	EC	120.4	35	0	0	0	0	0	100	0	0	0
88	84	ORIENTAL CONSULTANTS (ACKG LTD.), Shibuya-ku, Tokyo, Japan†	E	113.5	28	8	0	6	10	5	0	67	0	2
89	**	AEGION CORP., Chesterfield, Mo., U.S.A.†	EC	112.4	39	2	0	0	0	8	91	0	0	0
90	101	DORSCH GRUPPE, Offenbach am Main, Germany†	E	110.4	91	9	1	7	18	26	3	25	0	1
91	91	MORRISON HERSHFIELD, Atlanta, Ga., U.S.A.†	EA	106.1	83	41	0	3	4	4	0	25	1	15
92	107	SENER INGENIERIA Y SISTEMAS SA, Las Arenas (Getxo), Vizcaya, Spain†	EC	103.9	67	2	12	19	0	0	16	49	0	0
93	**	BURO HAPPOLD, Bath, U.K.†	E	101.6	52	76	2	0	0	0	5	11	0	0
94	100	OPUS INTERNATIONAL CONSULTANTS LTD., Wellington, New Zealand†	EAP	101.2	33	33	0	0	14	5	0	49	0	0
95	99	CHINA PETROLEUM ENG'G & CONSTRUCTION CORP., Beijing, China†	EC	100.3	47	0	0	0	0	0	100	0	0	0
96	**	VEPICA GRUPO INTERNACIONAL SL, Valencia, Spain†	EC	100.1	100	8	0	6	0	0	86	0	0	0
97	108	CHINA POWER ENGINEERING CONSULTING GROUP CO., Beijing, China†	EC	98.9	10	0	0	100	0	0	0	0	0	0
98	87	PM GROUP, Dublin, Ireland†	EA	98.7	54	13	7	2	0	1	68	0	0	3
99	90	INGENIUM INTERNATIONAL INC., Detroit, Mich., U.S.A.†	AE	97.3	86	88	0	0	0	0	0	12	0	0
100	86	KEO INTERNATIONAL CONSULTANTS WLL, Safat, Kuwait	AE	96.2	90	84	0	0	2	6	0	9	0	0
101	**	MOTA-ENGIL, Porto, Portugal†	EC	95.2	77	10	0	0	0	0	0	90	0	0
102	142	AYESA, Sevilla, Spain†	E	93.7	60	3	0	0	15	0	6	18	0	57

## ENR RANKING - JULY 2013

### The Top 10 International Design Firms by Region

<b>1</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$7,795.9 Mil. <b>Sector's Revenue:</b> \$18,009.4 Mil. 1 2 AECOM TECHNOLOGY CORP. 2 1 FLUOR CORP. 3 4 AURECON 4 8 PARSONS BRINCKERHOFF 5 6 BECHTEL 6 5 FUGRO NV 7 10 HATCH GROUP 8 3 KBR 9 9 ARUP GROUP LTD. 10 ** WORLEYPARSONS LTD.	<b>2</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$8,386.6 Mil. <b>Sector's Revenue:</b> \$15,462.2 Mil. 1 1 FUGRO NV 2 2 JACOBS 3 ** WSP + GENIVAR 4 3 GRONTMIJ NV 5 4 RAMBOLL GROUP A/S 6 10 ARCADIS NV 7 5 FLUOR CORP. 8 6 URS CORP. 9 7 AECOM TECHNOLOGY CORP. 10 8 CH2M HILL	<b>3</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$4,330.6 Mil. <b>Sector's Revenue:</b> \$9,769.6 Mil. 1 1 WORLEYPARSONS LTD. 2 2 DAR AL-HANDASAH CONSULTANTS 3 3 TECNICAS REUNIDAS 4 5 FLUOR CORP. 5 4 AECOM TECHNOLOGY CORP. 6 7 JGC CORP. 7 ** KHATIB & ALAMI 8 8 ATKINS 9 ** SNC-LAVALIN INC. 10 6 CH2M HILL
<b>4</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$7,915.3 Mil. <b>Sector's Revenue:</b> \$9,673.9 Mil. 1 1 AMEC PLC 2 2 WORLEYPARSONS LTD. 3 5 JACOBS 4 8 FLUOR CORP. 5 4 TETRA TECH INC. 6 3 AECOM TECHNOLOGY CORP. 7 6 BECHTEL 8 7 CH2M HILL 9 9 CONESTOGA-ROVERS & ASSOC. 10 10 MOTT MACDONALD	<b>5</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$6,109.7 Mil. <b>Sector's Revenue:</b> \$7,535.1 Mil. 1 1 ARCADIS NV 2 4 WORLEYPARSONS LTD. 3 2 STANTEC INC. 4 7 CARDNO LTD. 5 5 DAR AL-HANDASAH CONSULTANTS 6 3 ATKINS 7 6 FUGRO NV 8 8 MOTT MACDONALD 9 ** LARSEN & TOUBRO LTD. 10 9 GOLDER ASSOCIATES CORP.	<b>6</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$3,273.4 Mil. <b>Sector's Revenue:</b> \$6,097.1 Mil. 1 1 SNC-LAVALIN INC. 2 2 FLUOR CORP. 3 4 BECHTEL 4 3 ARCADIS NV 5 5 WORLEYPARSONS LTD. 6 9 HATCH GROUP 7 ** TECNICAS REUNIDAS 8 8 POYRY 9 7 FUGRO NV 10 6 TECHNIP
<b>7</b> <b>RANK</b> <b>2013</b> <b>2012</b> <b>Top 10 Revenue:</b> \$2,357.7 Mil. <b>Sector's Revenue:</b> \$5,210.3 Mil. 1 2 KBR 2 1 SNC-LAVALIN INC. 3 7 FLUOR CORP. 4 3 AURECON 5 ** AECOM TECHNOLOGY CORP. 6 6 DAR AL-HANDASAH CONSULTANTS 7 9 EGIS 8 8 MOTT MACDONALD 9 ** ROYAL HASKONINGDHV 10 5 WORLEYPARSONS LTD.	<b>Top 225 Volume</b> (in \$ billions)  Domestic Revenue: \$70.4 International Revenue: \$71.8 Total Revenue: \$142.2 Source: McGraw Hill Construction Research & Analytics/ENR	<b>Number of Firms Reporting Profit/Loss in the Top 225</b>  Domestic Profits: 155 Domestic Loss: 26 International Profit: 138 International Loss: 34 Source: McGraw Hill Construction Research & Analytics/ENR



## ENR SOURCEBOOK

### Top International Design Firms

GENERAL BUILDING		
RANK	FIRM	REVENUE* (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	1,218.4
2	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	855.3
3	ARCADIS NV	710.0
4	WSP + GENIVAR	558.6
5	ARUP GROUP LTD.	449.5
6	RAMBOLL GROUP A/S	358.2
7	FUGRO NV	350.0
8	ATKINS	280.5
9	GRONTMIJ NV	277.3
10	PARSONS BRINCKERHOFF	226.4
11	JACOBS	215.7
12	SNC-LAVALIN INC.	208.6
13	STANTEC INC.	207.6
14	AEDAS	192.4
15	GENSLER	190.2
16	SKIDMORE OWINGS & MERRILL LLP	169.1
17	MOTT MACDONALD	160.1
18	AURECON	154.2
19	COWI	143.8
20	HOK	137.7
21	KHATIB & ALAMI	125.9
22	URS CORP.	123.6
23	HDR	116.5
24	WL MEINHARDT GROUP PTY LTD.	116.4
25	KOHN PEDERSEN FOX ASSOCIATES PC	106.4
26	HYDER CONSULTING	100.7
27	IBI GROUP	98.9
28	INGENIUM INTERNATIONAL INC.	85.3
29	KEO INTERNATIONAL CONSULTANTS WLL	80.6
30	ATLAS GROUP	80.0
31	BURO HAPPOLD	77.0
32	CH2M HILL	77.0
33	PARSONS	72.8
34	CANNON DESIGN	68.6
35	WORLEYPARSONS LTD.	64.1
36	AMEC PLC	63.8
37	CARDNO LTD.	61.9
38	ROYAL HASKONINGDHV	61.5
39	CONESTOGA-ROVERS & ASSOC.	60.0
40	WATG / WIMBERLY INTERIORS	58.8
41	CALLISON	56.6
42	TETRA TECH INC.	50.0
43	EHAF CONSULTING ENGINEERS	49.0
44	LEND LEASE GROUP	48.1
45	ASSOCIATED CONSULTING ENGINEERS	46.0
46	MORRISON HERSHFIELD	43.6
47	PAGESOUTHERLANDPAGE	43.3
48	BURNS & MCDONNELL	42.1
49	MULVANNY2 ARCHITECTURE	39.0
50	NBBJ	37.5

GOVERNMENT OFFICES		
RANK	FIRM	REVENUE** (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	245.3
2	JACOBS	124.8
3	HDR	56.8
4	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	48.8
5	PAGESOUTHERLANDPAGE	39.2
6	RAMBOLL GROUP A/S	38.6
7	PARSONS BRINCKERHOFF	30.8
8	KHATIB & ALAMI	26.8
9	TETRA TECH INC.	26.7
10	H&A ARCHITECTS AND ENGINEERS	25.4
11	MWH GLOBAL	20.7
12	CH2M HILL	20.0
13	URS CORP.	16.6
14	HOK	15.1
15	INGENIUM INTERNATIONAL INC.	14.0
16	ECC	13.9
17	BURO HAPPOLD	13.3
18	BURNS & MCDONNELL	12.9
19	COWI	11.6
20	ROYAL HASKONINGDHV	10.5
21	MOTT MACDONALD	10.0
22	BLACK & VEATCH	9.1
23	CONSOLIDATED CONTRACTORS GROUP	8.2
24	ARUP GROUP LTD.	5.3
25	WESTON SOLUTIONS INC.	5.1

EDUCATION		
RANK	FIRM	REVENUE** (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	175.0
2	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	135.0
3	RAMBOLL GROUP A/S	70.4
4	PARSONS	69.8
5	ARUP GROUP LTD.	40.7
6	MOTT MACDONALD	24.0
7	LEND LEASE GROUP	22.7
8	BURO HAPPOLD	22.6
9	STANTEC INC.	22.4
10	ROYAL HASKONINGDHV	19.3
11	TECNICA Y PROYECTOS SA (TYPESA)	16.4
12	AEDAS	14.1
13	CDM SMITH	12.5
14	PARSONS BRINCKERHOFF	11.3
15	COWI	10.3
16	CANNON DESIGN	10.1
17	URS CORP.	8.8
18	KHATIB & ALAMI	6.8
19	PERKINS EASTMAN	6.7
20	ARTELIA	6.6
21	MORRISON HERSHFIELD	6.3
22	BURNS & MCDONNELL	6.2
23	LANGDON WILSON INTERNATIONAL	5.7
24	KEO INTERNATIONAL CONSULTANTS WLL	5.5
25	HOK	5.5

\*BASED ON 2012 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS.  
\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2012 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK MARKET SURVEY.



## ENR SOURCEBOOK

### MULTI-UNIT RESIDENTIAL

RANK	FIRM	REVENUE (\$ MIL.)
1	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	69.3
2	ARUP GROUP LTD.	42.9
3	KHATIB & ALAMI	37.0
4	PARSONS BRINCKERHOFF	33.9
5	ATKINS	24.1
6	RAMBOLL GROUP A/S	23.8
7	AEDAS	22.2
8	BURO HAPPOLD	19.9
9	MOTT MACDONALD	19.4
10	KEO INTERNATIONAL CONSULTANTS WLL	19.2
11	ASSOCIATED CONSULTING ENGINEERS	18.8
12	URS CORP.	17.5
13	EHA CONSULTING ENGINEERS	12.8
14	MORRISON HERSHFIELD	11.8
15	STANTEC INC.	11.6
16	CH2M HILL	10.7
17	INGENIUM INTERNATIONAL INC.	10.0
18	WONG TUNG & PARTNERS LTD.	9.0
19	COWI	8.9
20	AF AB	7.7
21	HOK	7.3
22	HOCHTIEF AG	6.3
23	CHINA INT'L WATER & ELECTRIC CORP. (CWE)	6.2
24	ROYAL HASKONINGDHV	5.3
25	POSCO ENGINEERING & CONSTRUCTION	5.1

### HOTELS, MOTELS AND CONVENTION CENTERS

RANK	FIRM	REVENUE** (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	99.4
2	WATG / WIMBERLY INTERIORS	58.8
3	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	47.6
4	GENSLER	36.1
5	ATKINS	31.3
6	AEDAS	27.4
7	KHATIB & ALAMI	25.3
8	PARSONS BRINCKERHOFF	24.2
9	ARUP GROUP LTD.	20.9
10	RAMBOLL GROUP A/S	19.4
11	COWI	16.6
12	BURO HAPPOLD	15.9
13	MOTT MACDONALD	14.0
14	EHA CONSULTING ENGINEERS	12.1
15	HKS INC.	11.4
16	HOK	11.2
17	INGENIUM INTERNATIONAL INC.	10.0
18	WONG TUNG & PARTNERS LTD.	8.7
19	KEO INTERNATIONAL CONSULTANTS WLL	7.2
20	HEERIM ARCHITECTS & PLANNERS CO. LTD.	6.3
21	CONSOLIDATED CONSULTANTS GROUP (CC)	6.1
22	THORNTON TOMASETTI INC.	5.4
23	VOA ASSOCIATES INC.	5.3
24	ASSOCIATED CONSULTING ENGINEERS	5.0
25	SMALLWOOD REYNOLDS STEWART STEWART & ASSOCIATES INC.	4.9

### HEALTH CARE

RANK	FIRM	REVENUE** (\$ MIL.)
1	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	192.2
2	AECOM TECHNOLOGY CORP.	104.6
3	STANTEC INC.	84.8
4	CANNON DESIGN	53.4
5	HDR	51.9
6	RAMBOLL GROUP A/S	35.3
7	ARUP GROUP LTD.	21.5
8	COWI	18.8
9	PERKINS EASTMAN	16.9
10	HOK	16.9
11	PARSONS BRINCKERHOFF	16.9
12	JACOBS	15.4
13	HKS INC.	13.9
14	AEDAS	12.9
15	MOTT MACDONALD	12.2
16	PM GROUP	10.2
17	KEO INTERNATIONAL CONSULTANTS WLL	8.5
18	INGENIUM INTERNATIONAL INC.	7.0
19	KHATIB & ALAMI	6.0
20	BURO HAPPOLD	6.0
21	URS CORP.	5.5
22	ALBERT KAHN FAMILY OF COS. (KAHN)	4.9
23	MORRISON HERSHFIELD	4.3
24	LEO A DALY	3.1
25	CDI CORP.	2.9

### RETAIL

RANK	FIRM	REVENUE (\$ MIL.)
1	WORLEYPARSONS LTD.	63.2
2	MULVANNY2 ARCHITECTURE	39.0
3	JACOBS	36.2
4	RAMBOLL GROUP A/S	33.8
5	AEDAS	32.6
6	STANTEC INC.	31.6
7	COWI	23.7
8	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	23.6
9	ARUP GROUP LTD.	22.3
10	MOTT MACDONALD	19.4
11	GENSLER	13.7
12	CH2M HILL	13.0
13	INGENIUM INTERNATIONAL INC.	13.0
14	KHATIB & ALAMI	12.5
15	HOK	10.9
16	SUMITOMO MITSUI CONSTRUCTION CO. LTD.	9.5
17	MORRISON HERSHFIELD	8.9
18	WONG TUNG & PARTNERS LTD.	8.3
19	AF AB	7.7
20	ASSOCIATED CONSULTING ENGINEERS	6.3
21	HOCHTIEF AG	6.2
22	URS CORP.	5.7
23	ATKINS	5.5
24	BURO HAPPOLD	5.3
25	ARTELIA	4.7

1\*BASED ON 2012 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS.

\*\*BASED ON SUPPLEMENTAL MARKET REVENUE DATA FROM 2012 PROVIDED BY INDUSTRY FIRMS PARTICIPATING IN ENR'S SOURCEBOOK MARKET SURVEY.

## ENR SOURCEBOOK

### TRANSPORTATION

RANK	FIRM	REVENUE* (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	1,049.8
2	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	628.0
3	PARSONS BRINCKERHOFF	491.7
4	EGIS	480.5
5	CH2M HILL	467.2
6	MOTT MACDONALD	454.0
7	ARUP GROUP LTD.	450.4
8	ATKINS	422.0
9	URS CORP.	403.3
10	WSP + GENIVAR	329.2
11	COWI	311.4
12	ARCADIS NV	290.0
13	SYSTRA	278.7
14	RAMBOLL GROUP A/S	269.7
15	AURECON	237.2
16	JACOBS	235.3
17	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	228.5
18	LOUIS BERGER	205.7
19	STANTEC INC.	204.8
20	GRONTMIJ NV	198.4
21	SNC-LAVALIN INC.	197.9
22	HYDER CONSULTING	189.7
23	ROYAL HASKONINGDHV	172.7
24	HATCH GROUP	145.9
25	BECHTEL	138.0
26	PARSONS	130.7
27	POYRY	124.0
28	KBR	122.0
29	CARDNO LTD.	102.1
30	FUGRO NV	100.0
31	WORLEYPARSONS LTD.	98.7
32	MOUCHEL	93.3
33	AMEC PLC	86.8
34	MOTA-ENGIL	85.7
35	CHINA RAILWAY CONSTRUCTION CORP. LTD.	85.0
36	SMEC	78.6
37	NIPPON KOEI GROUP	78.0
38	ORIENTAL CONSULTANTS (ACKG LTD.)	76.2
39	GOLDER ASSOCIATES CORP.	62.5
40	TECNICA Y PROYECTOS SA (TYPESA)	61.9
41	WL MEINHARDT GROUP PTY LTD.	57.9
42	CHINA RAILWAY GROUP LTD.	53.7
43	IBI GROUP	53.2
44	INECO	51.9
45	KHATIB & ALAMI	51.4
46	SENER INGENIERIA Y SISTEMAS SA	51.1
47	OPUS INTERNATIONAL CONSULTANTS LTD.	49.8
48	GHD	47.2
49	ILF CONSULTING ENGINEERS	43.5
50	SINCLAIR KNIGHT MERZ	43.1

### BRIDGES

RANK	FIRM	REVENUE** (\$ MIL.)
1	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	101.6
2	COWI	86.0
3	AECOM TECHNOLOGY CORP.	76.6
4	MOTT MACDONALD	59.3
5	CH2M HILL	47.5
6	RAMBOLL GROUP A/S	42.2
7	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	39.8
8	ARUP GROUP LTD.	35.4
9	STANTEC INC.	21.0
10	PARSONS	21.0
11	JACOBS	17.7
12	LOUIS BERGER	13.6
13	URS CORP.	11.0
14	ROYAL HASKONINGDHV	10.3
15	ORIENTAL CONSULTANTS (ACKG LTD.)	9.2
16	TETRA TECH INC.	8.6
17	TECNICA Y PROYECTOS SA (TYPESA)	8.3
18	PARSONS BRINCKERHOFF	6.7
19	HATCH GROUP	5.8
20	ASSOCIATED CONSULTING ENGINEERS	5.0
21	HOCHTIEF AG	5.0
22	BURO HAPPOLD	4.7
23	MORRISON HERSHFIELD	3.5
24	NIPPON KOEI GROUP	3.0
25	KHATIB & ALAMI	3.0

### HIGHWAYS

RANK	FIRM	REVENUE** (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	436.8
2	EGIS	330.6
3	ATKINS	253.8
4	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	219.3
5	CH2M HILL	216.6
6	URS CORP.	195.8
7	PARSONS BRINCKERHOFF	189.8
8	ARUP GROUP LTD.	137.0
9	STANTEC INC.	134.0
10	LOUIS BERGER	129.0
11	RAMBOLL GROUP A/S	121.8
12	JACOBS	103.2
13	MOTT MACDONALD	81.5
14	SMEC	78.6
15	ROYAL HASKONINGDHV	54.8
16	PARSONS	53.4
17	COWI	51.1
18	NIPPON KOEI GROUP	37.0
19	MWH GLOBAL	33.7
20	CHINA COMMUNICATIONS CONSTRUCTION GROUP LTD.	31.5
21	CDM SMITH	31.3
22	KHATIB & ALAMI	27.8
23	ORIENTAL CONSULTANTS (ACKG LTD.)	26.4
24	SINCLAIR KNIGHT MERZ	23.6
25	TECNICA Y PROYECTOS SA (TYPESA)	21.6

\*BASED ON 2012 CONTRACTOR AND DESIGN FIRM REVENUE FROM GENERAL BUILDING AS REPORTED IN ENR'S SURVEYS OF LEADING CONTRACTORS AND DESIGN FIRMS.  
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## ENR SOURCEBOOK

WATER SUPPLY		
RANK	FIRM	REVENUE* (\$ MIL.)
1	ARCADIS NV	400.0
2	AECOM TECHNOLOGY CORP.	293.3
3	MWH GLOBAL	207.3
4	GRONTMIJ NV	195.3
5	CH2M HILL	194.9
6	WSP + GENIVAR	178.5
7	TETRA TECH INC.	150.0
8	MOTT MACDONALD	99.7
9	JACOBS	97.6
10	BLACK & VEATCH	86.0
11	AURECON	85.4
12	STANTEC INC.	78.5
13	SMEC	69.6
14	ATKINS	68.6
15	EPTISA	59.1
16	URS CORP.	58.9
17	TECNICAS REUNIDAS	52.1
18	ROYAL HASKONINGDHV	51.0
19	FUGRO NV	50.0
20	EGIS	41.7
21	PARSONS BRINCKERHOFF	41.2
22	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	40.7
23	WORLEYPARSONS LTD.	39.5
24	TECNICA Y PROYECTOS SA (TYPESA)	38.8
25	NIPPON KOEI GROUP	38.0
26	GOLDER ASSOCIATES CORP.	37.0
27	GHD	35.6
28	KHATIB & ALAMI	33.9
29	KBR	33.0
30	RAMBOLL GROUP A/S	32.6
31	LOUIS BERGER	30.1
32	SNC-LAVALIN INC.	29.5
33	CARDNO LTD.	28.4
34	ILF CONSULTING ENGINEERS	26.4
35	CDM SMITH	24.3
36	NIPPON JOGESUIDO SEKKEI CO. LTD.	24.0
37	HATCH GROUP	23.1
38	HYDER CONSULTING	22.7
39	WL MEINHARDT GROUP PTY LTD.	22.3
40	COWI	20.5
41	DORSCH GRUPPE	20.1
42	SAFEGE	20.0
43	NIHON SUIDO CONSULTANTS CO. LTD.	17.5
44	CTI ENGINEERING CO. LTD.	16.8
45	BECA GROUP LTD.	16.8
46	H.P. GAUFF INGENIEURE GMBH & CO. KG - JBG	16.8
47	ARTELIA	16.5
48	AMEC PLC	16.0
49	ASSOCIATED CONSULTING ENGINEERS	15.0
50	FICHTNER GMBH & CO. KG	14.5

SEWER		
RANK	FIRM	REVENUE* (\$ MIL.)
1	MWH GLOBAL	267.8
2	CH2M HILL	245.2
3	AECOM TECHNOLOGY CORP.	221.3
4	GOLDER ASSOCIATES CORP.	109.0
5	SAIPEM	107.4
6	TETRA TECH INC.	100.0
7	MOTT MACDONALD	80.1
8	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	61.1
9	BLACK & VEATCH	57.9
10	SMEC	56.6
11	JACOBS	55.1
12	STANTEC INC.	50.3
13	ATKINS	44.4
14	AURECON	42.7
15	PARSONS	42.6
16	HYDER CONSULTING	42.3
17	COWI	42.0
18	ASSOCIATED CONSULTING ENGINEERS	42.0
19	POYRY	42.0
20	WORLEYPARSONS LTD.	39.6
21	GHD	38.7
22	ROYAL HASKONINGDHV	36.0
23	HYUNDAI ENGINEERING CO. LTD.	35.3
24	FICHTNER GMBH & CO. KG	33.5
25	DORSCH GRUPPE	28.2
26	NIPPON KOEI GROUP	26.0
27	WL MEINHARDT GROUP PTY LTD.	24.8
28	URS CORP.	24.7
29	CONESTOGA-ROVERS & ASSOC.	23.0
30	KHATIB & ALAMI	21.6
31	ARUP GROUP LTD.	21.1
32	CDM SMITH	20.6
33	HATCH GROUP	18.5
34	SAFEGE	18.0
35	RAMBOLL GROUP A/S	17.7
36	NIPPON JOGESUIDO SEKKEI CO. LTD.	15.0
37	EPTISA	14.5
38	LAHMEYER INTERNATIONAL GMBH	11.9
39	AMEC PLC	11.8
40	CES CONSULTING ENGINEERS SALZGITTER GMBH	10.1
41	STANLEY CONSULTANTS INC.	9.3
42	SINCLAIR KNIGHT MERZ	9.1
43	ARCADIS NV	9.0
44	AEGION CORP.	8.7
45	CARDNO LTD.	8.7
46	TECNICA Y PROYECTOS SA (TYPESA)	8.7
47	AAW CONSULTING ENGINEERS	7.3
48	DESSAU INC.	7.0
49	ORIENTAL CONSULTANTS (ACKG LTD.)	5.7
50	KEO INTERNATIONAL CONSULTANTS WLL	5.5

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## ENR SOURCEBOOK

### WATER TREATMENT AND DESALINATION

RANK	FIRM	REVENUE* (\$ MIL.)
1	CH2M HILL	194.9
2	MWH GLOBAL	140.7
3	AECOM TECHNOLOGY CORP.	90.9
4	JACOBS	60.8
5	TECNICAS REUNIDAS	52.1
6	TETRA TECH INC.	50.0
7	KBR	33.0
8	WORLEYPARSONS LTD.	28.3
9	CDM SMITH	21.1
10	EGIS	20.9
11	MOTT MACDONALD	20.4
12	HATCH GROUP	18.5
13	STANTEC INC.	18.4
14	PARSONS BRINCKERHOFF	15.8
15	ROYAL HASKONINGDHV	15.4
16	BLACK & VEATCH	14.4
17	RAMBOLL GROUP A/S	9.6
18	FICHTNER GMBH & CO. KG	8.5
19	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	8.3
20	POYRY	8.0
21	<b>KHATIB &amp; ALAMI</b>	<b>6.6</b>
22	NIPPON KOEI GROUP	5.0
23	SINCLAIR KNIGHT MERZ	4.9
24	TECNICA Y PROYECTOS SA (TYP SA)	4.2
25	BURNS AND ROE GROUP INC.	3.0

### SANITARY AND STORM SEWERS

RANK	FIRM	REVENUE* (\$ MIL.)
1	MWH GLOBAL	103.4
2	CH2M HILL	82.0
3	AECOM TECHNOLOGY CORP.	76.8
4	SMEC	56.6
5	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	47.4
6	MOTT MACDONALD	42.8
7	PARSONS	42.6
8	TETRA TECH INC.	37.5
9	STANTEC INC.	22.6
10	ASSOCIATED CONSULTING ENGINEERS	19.7
11	NIPPON KOEI GROUP	19.0
12	<b>KHATIB &amp; ALAMI</b>	<b>18.3</b>
13	HYUNDAI ENGINEERING CO. LTD.	17.6
14	BLACK & VEATCH	17.5
15	AEGION CORP.	8.7

### TRANSMISSION LINES AND AQUEDUCTS

RANK	FIRM	REVENUE* (\$ MIL.)
1	AECOM TECHNOLOGY CORP.	123.2
2	ATKINS	65.3
3	MOTT MACDONALD	57.6
4	BLACK & VEATCH	52.7
5	TETRA TECH INC.	45.0
6	MWH GLOBAL	44.3
7	JACOBS	33.5
8	STANTEC INC.	30.5
9	<b>KHATIB &amp; ALAMI</b>	<b>27.0</b>
10	URS CORP.	26.7
11	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	24.0
12	ILF CONSULTING ENGINEERS	23.7
13	RAMBOLL GROUP A/S	23.1
14	COWI	17.0
15	ASSOCIATED CONSULTING ENGINEERS	11.7
16	EGIS	10.4
17	TECNICA Y PROYECTOS SA (TYP SA)	10.1
18	ARUP GROUP LTD.	9.8
19	LAHMEYER INTERNATIONAL GMBH	8.5
20	CES CONSULTING ENGINEERS SALZGITTER GMBH	7.1
21	ARTELIA	7.0
22	FICHTNER GMBH & CO. KG	5.0
23	TEMELSU INTERNATIONAL ENGINEERING SERVICES INC.	4.0
24	CHINA INT'L WATER & ELECTRIC CORP. (CWE)	3.7
25	PARSONS	3.4

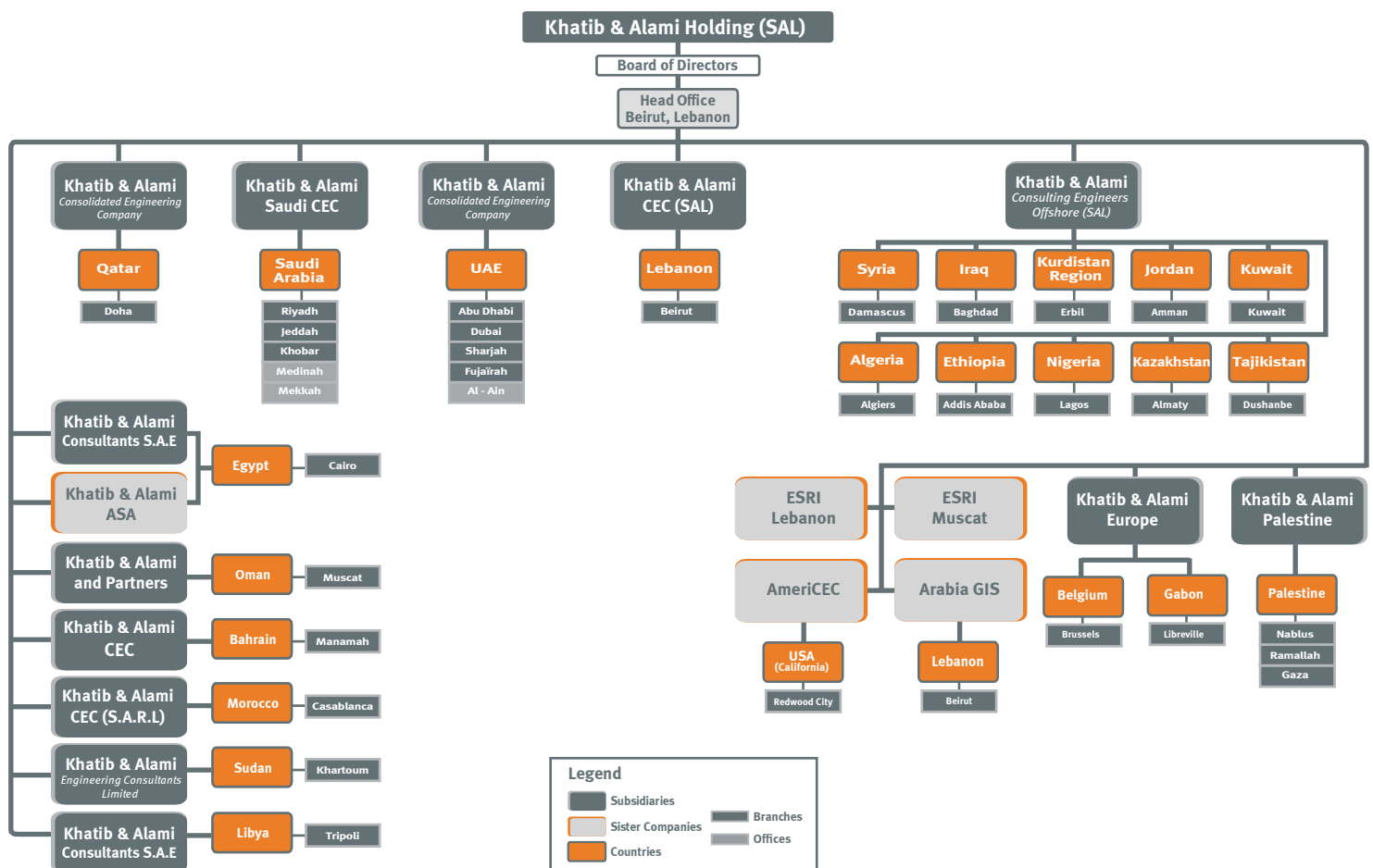
### PIPELINES

RANK	FIRM	REVENUE** (\$ MIL.)
1	CHINA PETROLEUM PIPELINE ENG'G CORP.	280.0
2	WORLEYPARSONS LTD.	261.0
3	WOOD GROUP MUSTANG	125.7
4	MOTT MACDONALD	108.0
5	DAR AL-HANDASAH CONSULTANTS (SHAIR AND PARTNERS)	103.2
6	AEGION CORP.	102.0
7	ILF CONSULTING ENGINEERS	72.8
8	CDI CORP.	65.6
9	CH2M HILL	61.0
10	HATCH GROUP	37.9
11	KBR	35.0
12	STANTEC INC.	34.7
13	GULF INTERSTATE ENGINEERING CO.	31.1
14	UNIVERSALPEGASUS INTERNATIONAL INC.	30.8
15	TECNICAS REUNIDAS	30.7
16	ARUP GROUP LTD.	30.6
17	JACOBS	27.2
18	FLUOR CORP.	20.9
19	SK ENGINEERING & CONSTRUCTION CO. LTD.	20.4
20	ECOLOGY & ENVIRONMENT INC.	18.3
21	CONSOLIDATED CONTRACTORS GROUP	16.4
22	URS CORP.	11.6
23	TEBODIN CONSULTANTS & ENGINEERS	10.0
24	<b>KHATIB &amp; ALAMI</b>	<b>9.8</b>
25	HYUNDAI ENGINEERING CO. LTD.	9.5

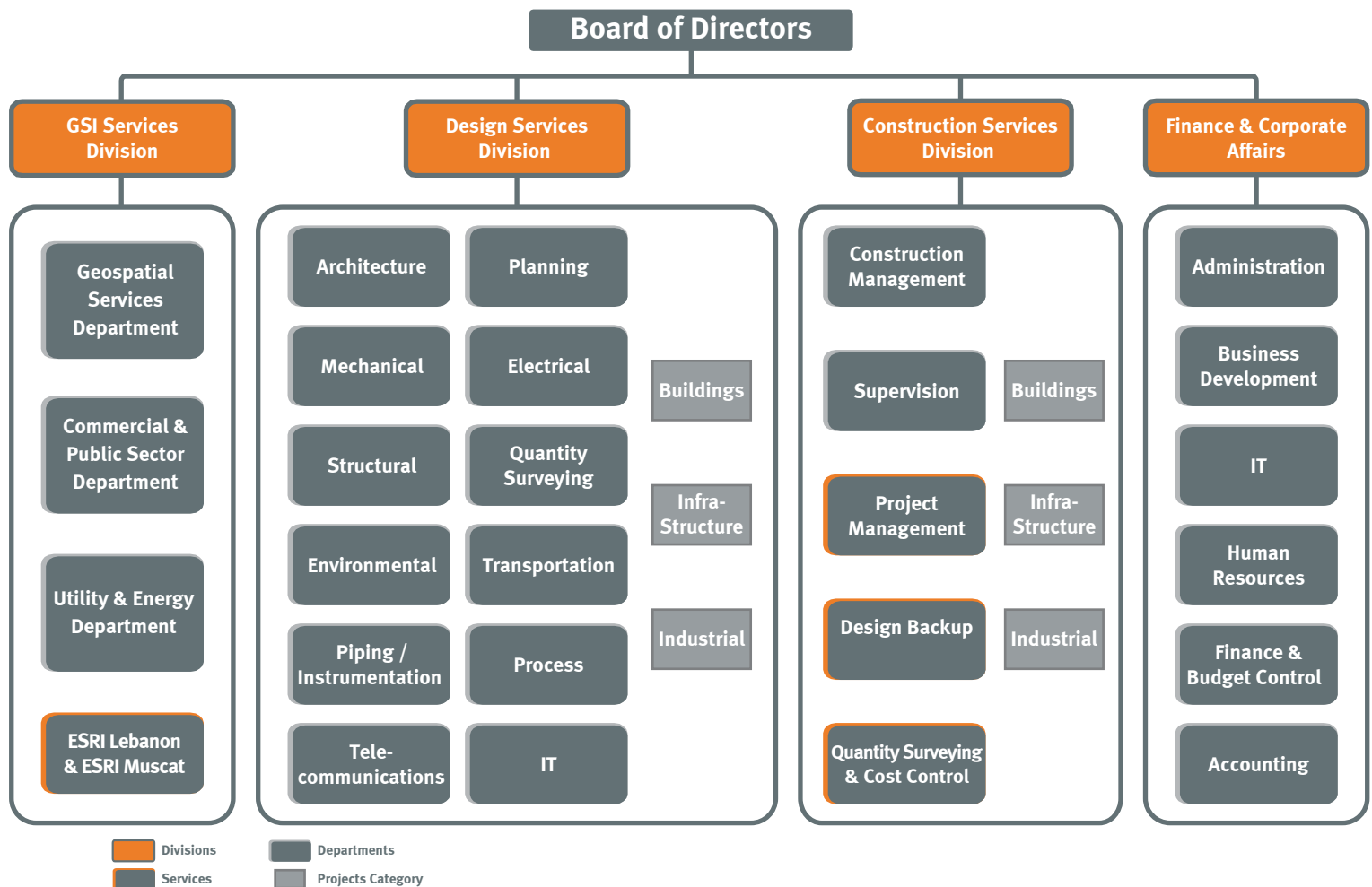
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## ORGANIZATION CHART - branches & offices



## ORGANIZATION CHART - divisions & services





## ARCHITECTURE

The Architectural Department is the innovative avant-gardist department of K&A. It has successfully piloted the construction of iconic landmarks all through the Middle East and North Africa. Benefiting from visionary design, through study and analysis in addition to efficient management, projects tackled encompass wide and diverse functions with budgets ranging from 75 to more than 200 million US dollars.

The wide technical educational and cultural background of our architects and planners is our asset. They possess solid expertise of American and European professional practice in addition to profound knowledge of international codes and standards. They positively collaborate with our engineering trades and disciplines in order to meet clients and end-users requirements.

Buildings types and functions comprise the following design typology:

- **Residential:** Apartment Buildings and Complexes, Private Residences and Housing Compounds.
- **Commercial & Retail :** Office Buildings and Complexes, Commercial Centers, Showrooms, Shopping Malls and Hypermarkets.
- **Corporate:** Headquarter Buildings, Complexes and Banks.
- **Governmental:** Embassies, Ministries, Governmental Agencies, Municipalities and Consulates.
- **Hospitality:** Hotels, Resorts, Motels, Marinas, Water Parks, Sports Clubs, Recreational Centers.
- **Health Care:** Hospitals, Medical Research Centers, Medical Clinics.
- **Educational:** Universities, Specialized Colleges, Schools, Technical Schools, Academies, Language Centers and Cultural Centers.
- **Institutional:** Mosque, Prisons, Houses of Worship, Correctional Institutes and Vocational Training Centers.
- **Industrial:** Plants, Service Workshops, Factories and Filling Stations.
- **Transport Facilities:** Airports Planning & Design of Related Buildings and Facilities, Passengers Stations, Fuelling Stations and Depots.





## URBAN & REGIONAL PLANNING

With the rapid expansion and unprecedented growth of our modern day cities, urban and regional planning has become an essential tool for dealing with the challenges of managing the built and natural environment. At Khatib & Alami the Urban Planning Department aims to ensure a comprehensive and multidisciplinary approach while advocating the active participation of key stakeholders.

Each project objective reflects the client's needs while taking into consideration the environmental and socio-economic impacts on the particular urban context. In establishing viable planning and design strategies and solutions, Khatib & Alami works towards sustainable development at national, regional and local levels.

### Khatib & Alami's Urban Planning Services include:

- Regional and City Master Planning
- Urban Planning and Regeneration
- Social Facilities Planning
- Urban Design of mixed use development
- Landscaping and Ecosystem management
- Urban institutional strengthening and management capacity building

Our solutions aim at enhancing the urban fabric in order to effectively utilize land and maximize site potential, while respecting existing structures and socio-cultural issues. Drawing on our understanding of market forces and recognizing the diversity inherent within communities, we strive to uphold the public interest in each of our projects.

Recent capital city landmark projects by the company include:

#### • Baghdad Comprehensive City Development Plan:

Expansion of the city from about 6 to 12 million populations by 2030, with an emphasis on economic development, and regeneration within the existing city.

#### • New Master Plan for Damascus City and its Vital Surrounding:

Planning for population growth of about 6 million by 2030, with emphasis on rational land use and integrated services, compactness, accessibility, connectivity, environmental and green space, public transport, heritage conservation and urban institutional arrangements.

#### • Arriyadh Integrated Plan for the Provision of Public Facilities:

Strategies, standards, and relocations for religious, education, health, police, fire, postal, library, parks, and recreational facilities and services, for the future city of about 8 million population.

#### • Erbil Inner Green Belt Master Plan and Design Guidelines:

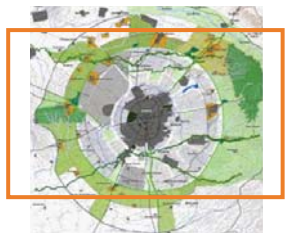
Comprehensive ecosystem management plan for a green belt of about 24,000 ha encircling the capital city of the Kurdistan Region Iraq, providing for agriculture, forestry, heritage conservation, recreation, landscape, and associated sustainable infrastructure and utilities.



BAGHDAD



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ERBIL



## ENVIRONMENTAL

The management of the urban and rural water cycles has been a major activity for more than four decades at K&A. Services for the design and construction supervision of water, sewer and stormwater networks range from small cities up to major capitals.

The scope of services covered at K&A under Water & Environmental Engineering cover:

- **Water resources management:**

Geology, hydrogeology, hydrology, groundwater assessment, water balance, and water resources management.

- **Urban Hydraulics:**

Water supply and wastewater master planning, water treatment, water transmission, water distribution, fire fighting, water loss reduction, sewage collection, sewage treatment, treated sewer effluent reuse.

- **Surface Water & Flood Mitigation:**

Hydrology, design of stormwater networks and flood mitigation structures.

- **Dam Engineering:**

Dam feasibility studies, and detail design.

- **Rural Hydraulics and Irrigation:**

Water resources assessment, pedology, feasibility studies, socio-economic studies, design of irrigation networks.

- **Solid Waste Management:**

Demographic and geographic studies, Assessment of existing solid waste management systems, Master Plans, Prepare sustainable solid waste management solutions, Design of solid waste landfill units, Prepare and participate in local and national awareness campaigns.

- **Environmental Impact Assessment :**

Determine, analyze, and interpret significant potential environmental impacts of a proposed development, Prepare mitigation measure plans, environmental management plans and monitoring plans.

- **Training:**

We also provide tailor made training to our Clients to meet their specific requirements in the various field of Project Management, Non revenue water, water & wastewater network design, mathematical modeling, hydrogeology, Environmental Impact Assessment, etc.

Our environmental specialty consists also in software solution development, with the collaboration of MWH Soft, in conceiving cutting edge technology in water and sewage network modeling and design.



## TRANSPORTATION

In our era, Transportation Systems are key to the ever-growing need for contact between people, communities, regions and countries and for the movement of commodities as part of national and global economies. Transportation has become an indispensable part of any economy and, hence, is a core specialty at Khatib & Alami, the sole expert of high speed transportation engineering in the Middle East.

At Khatib & Alami, the transportation department designs and manages projects from the rehabilitation and maintenance of roadways to the complete design of airfield systems including railway projects. The range of transportation project sizes varies from one million to several billion dollars.

Khatib & Alami scope of services covers:

### **TRAFFIC ENGINEERING:**

Traffic System Management, Traffic System Monitoring, Traffic Operations, Traffic Control, Intelligent Transport Systems, Traffic Forecasting and Analysis and Data Collection.

### **TRANSPORTATION PLANNING:**

Transportation Planning Models, Strategic Urban Planning Studies, Traffic Impact Studies, Economic Feasibility Studies and Public Transport.

### **HIGHWAY ENGINEERING:**

Feasibility Studies, Geometric Design, Interchanges, Bridges and Tunnels, Parking Facilities, and Environmental Impact Assessment.

### **RAILWAY ENGINEERING:**

Railway Track and Drainage Design, Railway Superstructure Design, Light Rail Transit Design, and Environmental Impact Assessment.

### **AIRPORT ENGINEERING:**

Airport Planning, Airport Configuration and Airside Capacity, Geometric Design of Airfield, Planning and Design of Terminal Areas, Structural Design of Airport Pavements, Airport Lighting, Marking and Signage.

### **PORT ENGINEERING:**

Ports Master Planning, Ports Feasibility Study and Marine Structures Design.



## STRUCTURAL

Structural Engineering at **Khatib & Alami** is the oldest discipline in the company since both founders of the company are structural engineers themselves. That is why Structural Engineering at K&A has always been under close scrutiny in order to apply state-of-the-art solutions and to enforce rigorous standards of safety and quality. Under this constant attention, Structural Engineering at K&A has thrived to meet the ever-increasing demand for larger and more complex structures, taller buildings, longer bridges, supporting heavier loads and meeting more stringent safety, serviceability and durability standards.

Today, K&A employs over 150 engineers with more than 30 years of design experience. The combination of institutional tradition with state-of-the-art techniques and technology, using world class standard software as well as in-house custom developed software, insures the client that the most appropriate structural solution in terms of cost and safety will be selected, taking into account all the particular conditions of the project.

### **K&A Structural Services includes:**

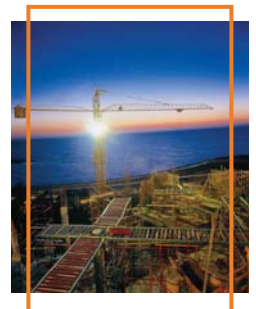
- Design of New Structures
- Checking of Existing Designs
- Inspection and Repair of Existing Structures

### **Scope Of Structures**

- Reinforced Concrete Structures
- Pre-stressed Concrete Structures
- Steel Structures

The Structural Engineering know-how is regularly applied to the following types of structures:

- Hotels, office buildings & residential high-rise towers with distinctive architectural features.
- Institutional facilities: schools, hospitals, military barracks, and banks.
- Villas and palaces: with intricate architectural treatment.
- Warehouses, supermarkets and factories.
- Bridges, tunnels, culverts and retaining walls.
- Elevated water tanks, pump rooms, settling tanks, filters, & grain silos.
- Electric transmission towers.





## ELECTRICAL UTILITIES

In today's world, building owners and designers are expected to meet the ever-escalating, high quality power demands of advanced telecom and high technology which are part and parcel of the challenging complexity of modern projects. Consequently, our electrical engineers work diligently to offer services capable of accommodating these demands while taking a proactive approach that will keep our electrical solutions viable for the years to come.

K&A offers specialized consulting services in the following:

**LIGHTING:**

Indoor/ Flood Lighting/ Landscape/ Road/ Tunnel

**BUILDING:**

MV/LV, Power Distribution, Protection and Safety-Low Current Systems: Security, Alarm, Audio-visual

**CONVEYING SYSTEMS:**

Elevators, Escalators, Moving Ramps-Buildings Automation System-Power

**INFRASTRUCTURE:**

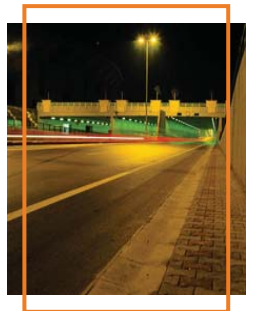
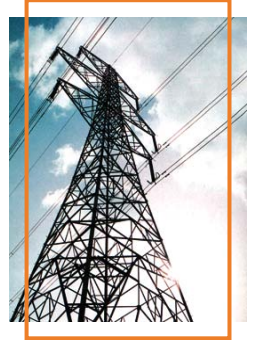
Transmission, Distribution, Substation

**UTILITY MANAGEMENT:**

SCADA, Energy Management, Distribution Management, Planning and Reinforcement, Energy Audit

**DIGITAL UTILITIES SOLUTIONS:**

AMR, Outage Management System, Facility Management, Database Management/ Maintenance, Application Software



## TELECOMMUNICATIONS

**Khatib & Alami** meets the rising expectations for faster, better and more responsive access to Internet services, the widespread implementation of convergent triple play system, the predominance of virtual private network, the liberalization of the communication sector, and the challenging implementation of service communications technology with its cutting edge features. Telecommunication is now central to most public and private projects and for this reason, in early 1990s; the Telecommunications specialty has been given the attention it deserves as a distinctive, independent section at K&A.

Our main advantage stems from our technology leadership in major industries: oil/gas, utilities and public works. In addition to basic services such as strategic planning, integrated solutions, system engineering and network architecture, our engineers focus on performance optimization, network resilience and disaster recovery, thereby offering comprehensive solutions.

Our Telecommunications Specialty encompasses:

- In building systems
- Voice Switching: PABX, Local and Transit Central offices, Next Generation Switching Networks
- Fiber Transmission: Backbone and FTTx Technologies
- Multiplexing Systems-Microwave Transmission Voice, Data and Video
- Satellite Transmission Voice, Data and Video
- Two Way and Trucking Radio Networks (TETRA)
- Cellular Networks (GSM, CDMA, etc..)
- Wireless Data (WiFi and WIMAX)-Telecom Traffic Management
- Telecom Facility Management
- Vehicle and Person Locations Systems
- SCADA and telemetry Networks
- Advanced Metering Infrastructure



## INDUSTRIAL

Khatib & Alami started servicing the industrial sector in the mid 1980s. This step was a major milestone in our mission to provide comprehensive and diverse engineering services. Driven by growth and client satisfaction, our team, today, has over 200 Oil & Gas industry specialists.

Our professionals have extensive experience in the Oil, Gas and Petrochemicals Industry as well as in other industrial areas and applications such as:

- Oil & Gas Process Facilities
- Bulk Storage and Loading/Unloading Facilities and Systems
- Pipelines (Oil & Gas)
- Production Wells
- Power and Electrical Facilities
- Communication Systems
- Security and Access Control Systems
- Fire Protection Systems
- Waste Collection, Handling and Treatment
- Support Facilities



## MECHANICAL

Since the mid 1960s, **Khatib & Alami's** Mechanical Engineering team has undertaken hundreds of projects, small and large.

Today, the team has grown to encompass more than 200 engineers in many countries, providing clients not only technical expertise but feasible and up to date solutions that meet their needs.

The qualified and well-trained engineers recognize the individuality of each client's requirements, in which practical solutions are tailored to provide the client with cost-effective systems.

Mechanical Department engineers strongly believe they are responsible to provide sustainable design solutions which provide healthy buildings, avoid useless energy consumption and depletion of natural resources, generate less waste, and are within the client's budget.

Our commitment to sustainability has been an integral part of our design philosophy and has been conveyed as a cultural transfer to our clients.

We are taking these core values to the next level of implementation through the use of renewable energy source, water conservation measures, energy efficient systems and indoor air quality improvements.

Highly professional standard of service is provided by our professionals in the following domains:

- Direct Expansion (DX) & Packaged Air Conditioning Systems
- Centralized Chilled Water Air conditioning Systems
- Zone smoke Control Systems
- Thermal Energy Storage Systems
- Laboratory Fume Handling and Containment Systems
- Hospital Medical Systems including HVAC infection control
- Mechanical services for industrial Applications including workshops for military, rail transits and food industries
- Water Supply and Drainage Systems
- Fire fighting Systems
- Pumping Stations
- Power Generation Plants
- Boiler and Fuel Plants
- Process Cooling Plants
- Noise Control Analysis
- Compressed Air Systems
- Life Cycle Cost Analysis and Pay back





## GEOSPATIAL SYSTEMS INTEGRATION - GSI

At a very early stage, **Khatib & Alami** recognized the tremendous potential of the Geographic Information System (GIS) technology and thus made a commitment to promote, support and implement this technology in the areas and fields of our operation. A pioneer in the region, K&A started offering GIS services in 1988 in association with the Environmental Systems Research Institute (ESRI) of Redlands, California, the world leader in the rapidly expanding GIS field.

Our team's beneficial depth of GIS experience and expertise in technology, database development, and application design and development, brings to any project a contemporary edge. K&A's GIS approach is based on data-base technology that enables flexible and efficient use of information, normally contained in the maps, to support a wide variety of applications.

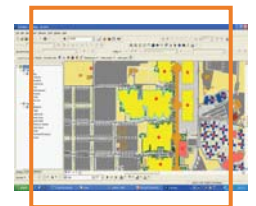
Since the inception of K&A's GIS specialty and resultant growth in demand, we have substantially expanded in knowledge, expertise, space, equipment and staff. The GIS team currently encompasses more than 140 engineers and technical support staff who constitute our multidisciplinary engineering consulting firm.

### Our leading services include:

- User Needs Survey and Requirement Analysis
- Conceptual Design and Implementation Planning
- Database Modeling and Building
- Application Design and Development
- System Configuration and Integration
- System Design / Re-engineering
- Data and Applications
- Operation and maintenance

Over the years, our GIS specialty has focused on and developed a wide-range of fortresses, thus building a solid reputation in the following vertical markets:

- Energy
- Facility Management
- Utilities-Municipalities
- Transportation
- Urban Development
- Real Estate and Community Development
- Environmental & Water Resources
- Telecom
- Location Based Services (LBS) and Mobile GIS Solutions
- Health-Education
- Tourism
- Business







## OFFICES

### Lebanon

#### Head Office

#### Beirut - Founded in 1959

Tel: (961)-1-843843 / 844944  
Fax: (961)-1-844400  
P.O.Box: 14-6203 Beirut  
1105 2100 Lebanon  
e-mail: beirut@khatibalami.com /  
GSI: gsi@khatibalami.com  
Website: www.khatibalami.com

### United Arab Emirates

#### Abu Dhabi - Established 1970

Tel: (971)-2-6395999  
Fax: (971)-2-6395639  
P.O.Box: 2732  
e-mail: abudhabi@khatibalami.com

#### Dubai - Established 1969

Tel: (971)-4-4252222  
Fax: (971)-4-4252233  
P.O.Box: 5091  
e-mail: dubai@khatibalami.com

#### Sharjah - Established 1968

Tel: (971)-6-5722444  
Fax: (971)-6-5722224  
P.O.Box: 688  
e-mail: sharjah@khatibalami.com

#### Fujairah - Established 1980

Tel: (971)-9-2241902  
Fax: (971)-9-2241904  
P.O.Box: 3495  
e-mail: fujairah@khatibalami.com

#### Al Ain - Established 1970

Tel: (971)-3-7540331  
Fax: (971)-3-7540331  
e-mail: AlAin@khatibalami.com

### Kingdom of Saudi Arabia

#### Riyadh - Established 1969

Tel: (966)-11-4778384  
Fax: (966)-11-4779793  
P.O.Box: 3928 - Riyadh 11481  
e-mail: riyyadh@khatibalami.com

#### Khobar - Established 1971

Tel: (966)-3-8946816 / 8942325  
Fax: (966)-3-8942341  
P.O.Box: 1713 - Khobar 31952  
e-mail: khobar@khatibalami.com

#### Jeddah - Established 1978

Tel: (966)-12-6143761 / 2 / 3  
Fax: (966)-12-6143764  
P.O.Box: 9330 - Jeddah 21413  
e-mail: jeddah@khatibalami.com

### Oman

#### Muscat - Established 1974

Tel: (968)-24-602016 / 76  
Fax: (968)-24-602098  
P.O.Box: 238 - P.C. 112 Ruwi  
e-mail: muscat@khatibalami.com

### Qatar

#### Doha - Established 1993

Tel: (974)-44655815 / 9  
Fax: (974)-44657002  
P.O.Box: 10281  
e-mail: doha@khatibalami.com

### Bahrain

#### Manama - Established 1972

Tel: (973)-17-213177  
Fax: (973)-17-212443  
P.O.Box: 5083 - Manama  
e-mail: manama@khatibalami.com

### Palestine

#### Nablus - Established 1993

Tel: (970)-9-2385933  
Fax: (970)-9-2385934  
P.O.Box: 534 - Nablus  
e-mail: nablus@khatibalami.com

#### Ramallah - Established 1994

Tel: (970)-2-2404515  
Fax: (970)-2-2406662  
P.O.Box: 1790 - Ramallah  
e-mail: ramallah@khatibalami.com

#### Gaza - Established 1995

Tel: (970)-8-2643343 / 2623984  
Fax: (970)-8-2640672  
P.O.Box: 1152 - Al Rimal  
e-mail: gaza@khatibalami.com

### Algeria

#### Algiers - Established 2003

Tel: (213)-21-484701 / 2 / 3  
Fax: (213)-21-484704  
e-mail: algeria@khatibalami.com

### Morocco

#### Casablanca - Established 2001

Tel: (212)-5-22267060  
Fax: (212)-5-22267105  
e-mail: Casablanca@khatibalami.com

### Sudan

#### Khartoum - Established 2002

Tel: (249)-183-258676  
Fax: (249)-183-258675  
e-mail: khartoum@khatibalami.com

### Egypt

#### Cairo - Established 1999

Tel: (202)-33378141 / 3  
Fax: (202)-33378146  
e-mail: cairo@khatibalami.com

#### Khatib & Alami - ASA

#### Cairo - Established 2007

Tel: (202)-22627877 / 22610540 /  
24035547 / 8  
Fax: (202)-22629664  
P.O.Box: 8101 Nasr City - 11371 Cairo  
-Egypt  
e-mail: ka-asa@khatibalami.com

### Libya

#### Tripoli - Established 2012

Tel/Fax: (218)-213362520  
e-mail: Libya@khatibalami.com

### Jordan

#### Amman - Established 2008

Tel: (962)-6-5777282  
Fax: (962)-6-5777281  
e-mail: amman@khatibalami.com

### Kazakhstan

#### Almaty - Established 2003

Tel: (7)-7272-509638  
Fax: (7)-7272-509584  
e-mail: kazakhstan@khatibalami.com

### Iraq

#### Baghdad - Established 2010

Tel: (964)-1 - 5410953  
GSM: (964)-771-2340186  
e-mail: Baghdad@khatibalami.com

#### Erbil - Established 2005

Tel: (964)-066-257-5656  
GSM: (964)-750-445-2195  
e-mail: erbil@khatibalami.com

### Kuwait

#### Kuwait - Established 2007

Tel: (965)-22997829  
Fax: (965)-22997853  
e-mail: kuwait@khatibalami.com

### Syria

#### Damascus - Established 2010

GSM: (963)-940669000  
P.O.Box: 6130  
e-mail: Damascus@khatibalami.com

### Belgium

#### Brussels - Established 2006

Tel: (32)-02-5393373  
Fax: (32)-02-5383574  
GSM: (32)-4-72562834  
e-mail: brussels@khatibalami.com

### Gabon

#### Libreville - Established 2011

Tel: (241)-441364  
e-mail: libreville@khatibalami.com

### Ethiopia

#### Addis Ababa - Established 2012

Tel: (251)-11-5505001  
Fax: (251)-11-5505466  
P.O.Box: 1458 Code 1110  
e-mail: addisababa@khatibalami.com

### United States of America

#### Redwood City (California) - Established 2001

Tel: 1-(650)-599-9064  
Fax: 1-(650)-599-9065  
e-mail: info@americce.com  
Website: www.americce.com