

# TOP

# 50

## Trenchless Design Firms of 2011



Rank	Engineering Company	2010 TT \$ Mil	2010 Total \$ Mil	Total % Billings	No. of TT Specialists	Projects 05-10	Previous Rank
1	CH2M HILL	95.300	6,300.000	1.5	180	400	1
2	Hatch Mott MacDonald LLC	87.100	367.000	23.7	200	500	2
3	CDM	61.400	1,070.000	5.7	170	395	3
4	Jacobs Engineering Group Inc.	60.700	9,915.000	.61	257	700	4
5	Black & Veatch	49.320	2,300.000	2.1	100	250+	6
6	MWH Global	45.400	1,139.000	4	50	n/a	5
7	Cardno TBE	27.327	66.284	41	216	6340	9
8	Brown and Caldwell	27.100	270.000	10	190	100+	7
9	Parsons Brinckerhoff	21.500	2,286.200	1	150	75	11
10	Lockwood, Andrews & Newnam Inc.	20.470	61.930	33	63	121	10
11	URS Corp.	18.800	9,200.000	0.2	290	530	12
12	HDR	15.526	1,133.626	1.36	110	273	14
13	RJN Group Inc.	11.700	22.900	51	95	200+	15
14	Stantec	9.855	1,513.062	0.65	165	330	13
15	GHD Inc.	9.600	1,000.000	.96	55	160+	26
16	KCI Technologies Inc.	9.000	124.000	7.26	90	1,600	20
17	Complete Crossings Inc.	8.600	8.600	100	15	500	18
18	O'Brien & Gere Engineers	8.600	169.000	5	60	150	-
19	Burgess & Niple	7.811	80.000	9.8	36	194	16
20	Hydrostructures PA.	7.000	9.300	75.2	15	200+	21
21	GeoEngineers Inc.	6.800	15.000	44.6	32	440	23
22	Wade Trim	6.174	45.011	14	15	144	22
23	Carollo Engineers	6.000	148.000	4	28	100+	19
24	Brierley Associates LLC	5.119	10.665	48	48	210	35
25	Kleinfelder/S E A Consultants	5.000	47.000	5	10	20	-
26	RBF Consulting	5.000	100.000	5	25	20	-
27	Baxter & Woodman Inc.	4.500	25.000	18	13	300+	40
28	Weston & Sampson Engineers	4.496	33.000	13.62	55	61	25
29	Whitman, Requardt and Assoc.	3.921	85.100	4.6	36	36	-
30	Harris & Associates	3.193	49.500	6.4	18	48	33
31	GENIVAR Inc.	2.800	580.000	0.48	10	75	36
32	Buchart Horn Inc.	2.650	35.500	9	22	78	-
33	Gannet Fleming Inc.	2.600	296.710	0.88	25	55	28
34	CNA Consulting Engineers	2.550	2.550	100	13	90	29
35	Jacobs Associates	2.531	31.407	8.1	20	208	37
36	Hubbell, Roth & Clark	2.362	22.648	10.4	21	150+	41
37	R.V. Anderson Associates Ltd.	2.175	27.000	8	30	75	46
38	J.D. Hair & Associates Inc.	2.013	2.013	100	7	250+	31
39	Staheli Trenchless Consultants	2.000	2.000	100	6	50+	39
40	STV Inc.	1.737	350.320	.5	35	152	42
41	Dillon Consulting Ltd.	1.641	110.810	1.5	32	81	38
42	RMC Water and Environment	1.600	26.900	6	4	25	-
43	Haley & Aldrich	1.470	97.000	1.5	15	160	43
44	Bennett Trenchless Engineers	1.250	1.250	100	5	125	45
45	Tectonic Engineering & Surveying Consultants P.C.	1.200	48.000	2.5	6	50	30
46	Wessler Engineering Inc.	1.110	6.800	16	7	53	49
47	Murray, Smith & Associates Inc.	1.100	11.000	10	24	63	-
48	Dibble Engineering	1.000	9.000	11	6	41	48
49	Lachel & Associates Inc.	0.206	6.250	4	5	35	-
50	SubTerra Inc.	0.150	1.000	15	2	10	-

**Totals**

**686.458 39,262.336 1.7% 3,082 14,463**

## 1. CH2M HILL

Headquartered near Denver, employee-owned CH2M HILL is a global leader in consulting, design, design-build, operations and program management for government, civil, industrial and energy clients. With \$7 billion in revenue and 30,000 employees, CH2M HILL is an industry-leading program management, construction management and design firm. The firm's work is concentrated in the areas of water, transportation, environmental, energy, power and facilities and infrastructure. We provide a full range of services needed to move projects from concept to successful operation. The firm has long been recognized as a most-admired company and leading employer.

Thames Water Utilities Limited selected CH2M HILL as program manager for the Thames Tunnels Program, one of the biggest and most historic public works initiative in London's history developed to comply with the European Commission's Urban Waste Water Treatment Directive. A 32-km-long tunnel, which will be the deepest ever built beneath London, and a 10-km tunnel under the River Lee are primary components of the next major addition to the city's great interceptor sewer systems built in the 1860s. Web: [www.ch2mhill.com](http://www.ch2mhill.com).

## 2. Hatch Mott MacDonald

Hatch Mott MacDonald (HMM) is a leading North American consulting engineering firm with a century of worldwide experience. HMM has designed and managed some of the world's most prominent underground projects. The company provides comprehensive engineering services in all areas of transportation, tunnels, water, wastewater, environmental, pipeline and utility markets. HMM offers public and private clients a range of services including planning, investigations, design, risk management, program management and construction management. With over 60 offices in North America and staff resources of over 22,000 worldwide, the company can respond quickly and cost-effectively to any project demand. Web: [www.hatchmott.com](http://www.hatchmott.com).

## 3. CDM

CDM is a consulting, engineering, construction and operations firm delivering exception service to public and private clients worldwide. Since 1947, CDM has been providing innovative solutions developed through strong client relationships of mutual trust and respect and a commitment to quality and integrity. From its founding as a three-person partnership, CDM has grown into a leading global firm of more than 4,500 employees who provide professional services in the core capabilities of water, environment, transportation, energy and facilities.

Trenchless technologies have been a continual component of CDM design projects and the firm is proficient in all types of technologies, including tunneling, microtunneling, HDD, pipeline assessment, pipe rehabilitation, pipe bursting, ground freezing and pipe jacking. In the past five years, CDM has planned and designed trenchless technology projects that have resulted in more than \$1 billion in construction projects. Web: [www.cdm.com](http://www.cdm.com).

## 4. Jacobs Engineering Group

Jacobs Engineering Group Inc. is one of the world's largest and most diverse providers of professional technical services, including all aspects of engineering, architecture, construction, and operations and maintenance as well as scientific and specialty consulting. Jacobs serves a large array of companies and organizations, including industrial, commercial and government clients across multiple markets and geographies. Founded in 1947, Jacobs has more than 60,000 employees worldwide in 170 locations and more than 25 countries. Web: [www.jacobs.com](http://www.jacobs.com).

## 5. Black & Veatch

Black & Veatch is a global leader in the consulting, engineering, construction and operation of what the world needs now and in the future in the crucial areas of energy, water and telecommunications and in providing up-to-the-minute services in the fast changing federal and environmental markets. Founded in 1915, the employee-owned, \$2.7 billion company operates out of over 110 offices worldwide and has completed projects in more than 100 countries. Web: [www.bv.com](http://www.bv.com).

## 6. MWH

With a rich legacy that dates back to 1844 and more than 7,000 employees on six continents, MWH Global offers a multi-disciplined global team of program managers, business consultants, engineers, geologists, operators, scientists, technologists and regulatory experts who provide solutions to the world's most challenging wet infrastructure projects. For more than five decades, MWH has been involved in investigating, planning, designing and constructing underground and trenchless projects. We use proven underground design and construction techniques for water and wastewater conveyance; hydroelectric, dam and mining infrastructure and other underground projects. MWH is driven to meet today's challenges with a dedication to innovation and a commitment to mastering emerging technologies and applying them to create client-focused results. Web: [www.mwhglobal.com](http://www.mwhglobal.com).

## 7. Cardno TBE

Cardno TBE offers a full range of subsurface utility engineering, three-dimensional underground imaging, professional utility coordination, surveying and mapping services, condition assessment of utility infrastructures, trenchless technology and rehabilitation design, utility pipeline design and GIS/asset management. Throughout the United States and internationally, Cardno TBE associates are actively involved with industry associations and take part in the research and development of industry standards and guidelines. Due to this and extensive practical experience, Cardno TBE associates are sought internationally for speaking engagements. Cardno TBE has received numerous industry and civic awards, including the 2006 NASTT Industry Achievement Award for its contribution over the past 15 years in the development and support of the trenchless technology industry. Headquartered in Clearwater, Florida, Cardno TBE has over 40 offices providing services throughout the United States, Canada, United Kingdom and Australia. Web: [www.CardnoTBE.com](http://www.CardnoTBE.com).

## 8. Brown and Caldwell

Brown and Caldwell has a 62-year history of delivering effective, economical and environmentally compatible solutions to infrastructure challenges. The firm is a recognized leader in infrastructure sustainability, adapting state-of-the-art technologies to complex infrastructure problems involving clients' buried assets. And with nearly 1,500 employees and 50 offices in the United States, the company helps communities nationwide with planning, condition assessment, information management, permitting, public education, design, renovation, construction services and proactive O&M. Since 2001, the firm's work has been honored by the North American Society for Trenchless Technology (including two awards for Trenchless Project of the Year), the International Trenchless Technology Association and several local/regional organizations. Web: [www.browncaldwell.com](http://www.browncaldwell.com).

## 9. Parsons Brinckerhoff

Parsons Brinckerhoff is a leader in developing and operating infrastructure around the world, with 14,000 employees dedicated to meeting the needs of clients and communities in the Americas, Europe, Africa, the Middle East, Asia and Australia-Pacific regions. Parsons Brinckerhoff offers skills and resources in strategic consulting, planning, engineering, program/construction management and operations for all modes of infrastructure, including transportation, power, community development, water and the environment. Parsons Brinckerhoff is part of Balfour Beatty plc, the international infrastructure group operating in professional services, construction services, support services and infrastructure investments. Tunnel areas of expertise include all types and forms of underground construction: drill & blast, TBM, EPB, slurry shield, immersed tubes, NATM/SEM, cut & cover, pipe jacking, microtunnelling, slurry walls, secant piles, shafts, ground freezing, grouting, seismic engineering, tunnel security and explosion-resistant design, risk analysis, VDC/BIM and sustainable design. Web: [www.pbworld.com](http://www.pbworld.com).

## 10. Lockwood, Andrews & Newman

Lockwood, Andrews & Newnam Inc. (LAN) is a national engineering firm offering planning, engineering and program management services. LAN has offices in 17 cities serving municipalities throughout the United States. Staying on the leading edge of the industry, LAN searches continuously for new technologies and products to improve performance and decrease costs. LAN's top priority is providing its clients with the best product, while saving them time and money. Web: [www.lan-inc.com](http://www.lan-inc.com).

## Types of Trenchless Work

Each year when we gather information from the engineering firms for our Top 50, we ask that they include what types of projects they worked on — from auger boring to utility tunneling. All told, more than 5,600 projects were reported to us by our Top 50 engineering firms for our survey. Here's the breakdown (with the firm that reported the top number of projects for each):

**Auger Boring:** 309. URS Corp. reported participating in 80 projects.

**HDD:** 1,073. Complete Crossings Inc. reported participating in 470 projects.

**Microtunneling:** 181. Jacobs Associates reported participating in 27 projects.

**Pipe Jacking:** 250. URS Corp. reported participating in 87 projects.

**Pipe Bursting:** 113. Harris & Associates reported participating in 18 projects.

**Pipe Ramming:** 484. Brown and Caldwell reported participating in 60 projects.

**SSES:** 572. Hatch Mott MacDonald and Brown and Caldwell each reported participating in 60 projects.

**SUE:** 2,372. Cardno TBE reported participating in 1,232 projects.

**Utility Tunneling:** 249. Hatch Mott MacDonald reported participating in 80 projects.



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