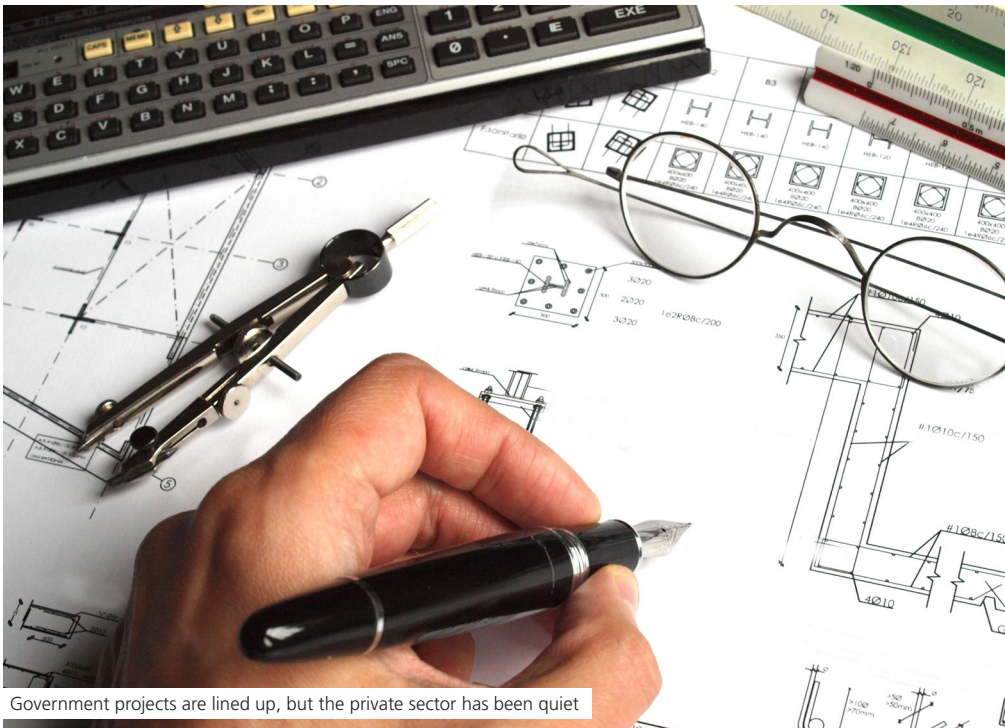


SINGAPORE'S 27 LARGEST ENGINEERING FIRMS



Government projects are lined up, but the private sector has been quiet

Engineers are tunnelling their way into overseas projects

An increasing number of companies are trying to acquire new projects in Southeast Asia amidst sluggishness in the local market.

Changi Airport's Terminal 5, Jewel Changi Airport, and the Tusa seaport are just some of the infrastructures due to be built less than five years from now.

The Hays Quarterly Report for the fourth quarter of 2016 notes an obvious increase in the demand for engineers who are skilled in civil and structural design, electrical design, and mechanical design related to rail. This is amidst government plans to spend \$26b on transport infrastructure by 2020.

Hays says aside from those with rail experience, tunnelling engineers will also find their services in demand. The healthcare sector, according to Hays, is also a strong market with the new build/extension and upgrade of existing hospitals creating demand for candidates with mechanical design experience.

"As a result of this planned work, many employers have moved their staff internally from buildings teams

Professionals and organisations with transportation infrastructure experience in Singapore are gaining regional recognition and are increasingly sought-after for overseas projects.



to healthcare/rail/infrastructure works to ensure they can cope," notes Hays. Randstad concurs, saying the healthcare segment is boosted by the Ministry of Health's 2025 plan to prepare the country for the ageing population. "Following a regional trend, initiatives and projects have been set in place to decentralise the healthcare system and improve accessibility to healthcare services," comments Randstad.

In terms of hiring preferences, Hays says employers have a desire for permanent hires only, given that most of the projects have a deadline of completion by 2020. "A preference at the moment is to employ local permanent staff. However, contract work will be offered for niche skill set roles where the need is project related," it adds.

Consultancies are said to be setting their sights on overseas projects, amidst sluggishness in the residential and retail markets. Hays says there's

demand for candidates who have had experience working in the wider Southeast Asia region, citing an increasing number of companies trying to acquire new projects in Southeast Asia.

"As government cooling measures are still in place, residential and retail markets remain sluggish with little or no new developments in the local market. As a result, consultancies are starting to focus their attention on overseas projects. With the private sector also quiet, the focus is on government funded public works focussing mainly on railway and infrastructure," reports Hays.

Surbana Jurong, for instance, was recently awarded the contract to design the masterplan for the Hyderabad Pharma City in India's newest state of Telangana. In 2016 Surbana Jurong also acquired Australia-based SMEC Holdings Ltd. Meanwhile, Randstad says professionals and organisations with transportation infrastructure experience in Singapore are gaining regional recognition and are increasingly sought after for overseas projects.

In terms of innovation, BMI Research notes first movers in adapting 3D printing to the construction space are likely to achieve significant advantages in terms of precision and waste reduction over market participants relying on conventional construction methods.

Surbana Jurong keeps top spot

Still the largest engineering firm in Singapore following a merger in 2015, Surbana Jurong tops *Singapore Business Review's* 2016 list, followed by AECOM Singapore and Parsons Brinckerhoff.

Meanwhile, Surbana Jurong Chairman Liew Mun Leong was conferred the Distinguished Professional Engineer Award 2016 by the national Professional Engineers Board in November.

Surbana Jurong has also acquired 100% shareholdings in AETOS from Temasek, expanding its overall service offerings to include safety and security capabilities.

SINGAPORE'S 27 LARGEST ENGINEERING FIRMS

2016	ENGINEERING FIRM	2015	TOTAL NUMBER OF REGISTERED ENGINEERS		2016 BREAKDOWN			TOTAL NUMBER OF STAFF	KEY EXECUTIVE OFFICER
			2016	2015	MECHANICAL	CIVIL	ELECTRICAL		
1	SURBANA JURONG	1	70	81	14	42	14	2,789	WONG HEANG FINE
2	AECOM SINGAPORE	2	36	37	3	28	5	738	BILLY WONG
3	PARSONS BRINCKERHOFF	3	33	31	9	17	7	-	RAYMOND LO
4	ARUP SINGAPORE	4	25	27	3	21	1	300	CHIA WAH KAM
4	WORLEYPARSONS	10	25	18	5	11	9	290	EDMUND POH
6	T.Y.LIN INTERNATIONAL	6	23	21	5	15	3	212	TEH HEE SEANG
7	BECA CARTER HOLLINGS AND FERNER (S.E.ASIA)	5	21	25	7	9	5	197	TAN KIAT LEONG
8	MEINHARDT SINGAPORE (INCLUDING MEINHARDT INFRASTRUCTURE)	6	20	21	4	13	3	323	SHAHZAD NASIM OMAR SHAHZAD LEE BEE WAH THOMAS SIT
8	CPG CONSULTANTS	8	20	20	5	13	2	1997	KHEW SIN KOON
10	MOTT MACDONALD SINGAPORE	9	19	19	4	13	2	400	YOU FOOK HIN
11	KTP CONSULTANTS (INCLUDING KTP INTERNATIONAL)	12	17	12	0	16	1	240	YEO CHOON CHONG ALLAN TEO
12	AURECON SINGAPORE	-	13	5	4	8	1	123	STEVE LIEW
12	RSP ARCHITECTS PLANNERS & ENGINEERS PTE. LTD.	-	13	-	0	13	0	-	LAI HUEN POH
14	CH2M HILL SINGAPORE	11	12	13	5	5	2	-	TAN NGO CHIAW
15	ECAS CONSULTANTS PTE. LTD.	-	10	9	1	9	0	130	CHAN EWE JIN
15	TRITECH CONSULTANTS	-	10	-	0	10	0	-	WANG XIAONING
15	DSCO GROUP PTE. LTD.	-	10	8	3	0	7	39	JACQUELINE CHAN
15	BESCON CONSULTING ENGINEERS	17	10	9	4	0	6	-	CHIN ZEE PING
19	SQUIRE MECH PTE. LTD.	17	9	9	6	-	3	109	NG ENG KIONG
19	RANKINE&HILL (SINGAPORE)	15	9	10	2	3	4	113	TAN PECK KHOON
19	CMP CONSULTANTS PTE. LTD.	-	9	-	4	5	0	-	CHAN YEW LIANG
19	DP ENGINEERS	17	9	9	2	5	2	810	TAN YEW CHAI GOH YONG PING
23	J.M. PANG & SEAH	13	8	11	2	0	6	60	LEE WAI MENG
23	SEMBCORP ARCHITECTS & ENGINEERS	20	8	8	1	5	2	-	LIE LIONG TJEN
23	BLACK & VEATCH (SEA)	13	8	11	2	5	1	55	HOE WAI CHEONG WILLIAM YONG HARRY HARJI
23	FONG CONSULT	15	8	10	0	8	0	130	PHANG SIEW KHEONG
23	SKM (SINGAPORE) PTE. LTD.	-	8	-	3	4	1	-	-
TOTAL			455	424	95	274	86	9,055	

DATA OBTAINED FROM PROFESSIONAL ENGINEERS BOARD, SINGAPORE (PEB) ON SEPTEMBER 9, 2016