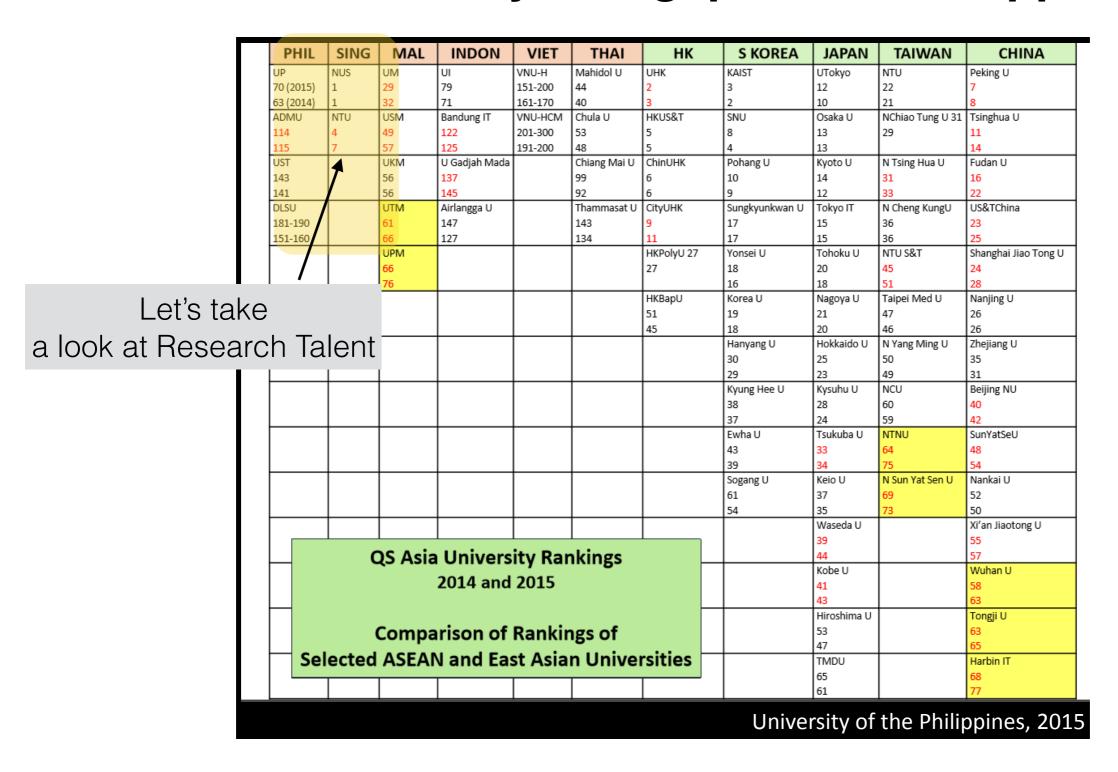
Research Quality - Singapore vs. Philippines

PHIL	SING	MAL	INDON	VIET	THAI	НК	S KOREA	JAPAN	TAIWAN	CHINA
UP	NUS	UM	UI	VNU-H	Mahidol U	UHK	KAIST	UTokyo	NTU	Peking U
70 (2015)	1	29	79	151-200	44	2	3	12	22	7
63 (2014)	1	32	71	161-170	40	3	2	10	21	8
ADMU	NTU	USM	Bandung IT	VNU-HCM	Chula U	HKUS&T	SNU	Osaka U	NChiao Tung U 31	Tsinghua U
114	4	49	122	201-300	53	5	8	13	29	11
115	7	57	125	191-200	48	5	4	13		14
UST		UKM	U Gadjah Mada		Chiang Mai U	ChinUHK	Pohang U	Kyoto U	N Tsing Hua U	Fudan U
143		56	137		99	6	10	14	31	16
141		56	145		92	6	9	12	33	22
DLSU		UTM	Airlangga U		Thammasat U	CityUHK	Sungkyunkwan U	Tokyo IT	N Cheng KungU	US&TChina
181-190		61	147		143	9	17	15	36	23
151-160		66	127		134	11	17	15	36	25
		UPM				HKPolyU 27	Yonsei U	Tohoku U	NTU S&T	Shanghai Jiao Tong I
		66				27	18	20	45	24
		76					16	18	51	28
						HKBapU	Korea U	Nagoya U	Taipei Med U	Nanjing U
						51	19	21	47	26
						45	18	20	46	26
						-	Hanyang U	Hokkaido U	N Yang Ming U	Zhejiang U
							30	25	50	35
							29	23	49	31
							Kyung Hee U	Kysuhu U	NCU	Beijing NU
							38	28	60	40
							37	24	59	42
							Ewha U	Tsukuba U	NTNU	SunYatSeU
							43	33	64	48
							39	34	75	54
							Sogang U	Keio U	N Sun Yat Sen U	Nankai U
							61	37	69	52
							54	35	73	50
						 	J4	Waseda U	13	Xi'an Jiaotong U
						L		39		55
	,	C A-:-	Habrana	:+ D	lein an			44		57
_	QS Asia University Rankings 2014 and 2015							Kobe U		Wuhan U
								41		58
			LUIT GIIG	_010				43		63
-								Hiroshima U		
	Comparison of Rankings of Selected ASEAN and East Asian Universities							1		Tongji U
								53		63
Sal								47 TNADU	-	65
Selected ASEAN and East Asian Universities								TMDU		Harbin IT
	Ι							65		68 77
								61		

University of the Philippines, 2015

How do we differ from Singapore in Developing World Class Research Talent that Contribute to GDP?

Research Quality - Singapore vs. Philippines



How do we differ from Singapore in Developing World Class Research Talent that Contribute to GDP?

What our Low Research Ratings Might Be Telling Us ...

Singapore R&D

Funded State of the Art Research

Nonlinear Process Innovation

Strategic Research Portfolio

International Collaboration

Seasoned & Young Researchers

Philippine R&D

Under funded 'Capacity Building'

Academic with Weak Industry Links

Gov Determines Priorities

Manila Centric in Funding

Teaching Faculty & few Researcher

SINGAPORE R&D Talent Framework

The R&D talent framework, through the different areas of impactful research, builds up a base of talent that crosses disciplinary boundaries.

National Research Foundation - Interdisciplinary research

The Singapore National Research Foundation (NRF) Fellowship scheme is a key initiative to attract and root young scientific talent to Singapore. The NRF Fellowship is open to all areas of science and technology, and scientists of all nationalities are welcome to apply. NRF Fellows are given complete independence and freedom to pursue their own research directions. They are also free to choose the host organisation which they think is the best environment for their research.

The Returning Singaporean Scientists Scheme seeks to attract back talented and established overseas-based Singaporean researchers and provide them with the funding and opportunity to relocate their research to Singapore. Under this scheme, NRF provides opportunities for highly capable Overseas Singaporeans (OS) to continue their research careers in Singapore and eventually take up research leadership positions here.

Ministry of Health - Biomedical research

The Ministry of Health (MOH)'s talent development programmes seek to nurture and support a critical mass of clinician scientists in Singapore. Clinician scientists perform research, and convert laboratory discoveries into new drugs, devices and diagnostics that benefit patients in the treatment of diseases and illnesses. These programmes build Singaporean talents through scholarships, research training fellowships, and research grant awards. Such efforts have attracted some Singapore clinician scientists who have built their reputations overseas, to return home to mentor the next generation.

The MOH Research Scholarships are awarded to outstanding clinicians in their final year Basic Specialist Training, Advanced Specialist Training and Residency Training. Applicants should be working in public health institutions, and have the desire to pursue a PhD in health and medical research.

Agency for Science, Technology and Research (A*STAR) - Undergraduate and Graduate Research

A*STAR has pioneered a series of programmes to grow the local PhD talent pool in the research institutes (RIs) and increase the enrollment of Singaporean students in the engineering and science PhD programmes at the local universities. A number of PhD scholarship programmes were launched in 2001 to build a pipeline of local PhD talents, and to date, A*STAR has attracted more than 1,000 talented young local PhDs, of which 25% of A*STAR fellows and scholars have completed their training and are contributing to R&D in the public or private sector. The remaining majority are in the process of working towards a PhD or obtaining post-doctoral experience.

A*STAR has also initiated an extensive range of outreach programmes to develop and sustain a pipeline of young talent. Through these programmes, A*STAR works closely with the Ministry of Education, Science Centre Singapore, schools and the scientific community to augment the capacity of educators and scientists to mentor and guide students in research projects. The Singapore Academy for Young Engineers and Scientists (SAYES) has been established to galvanise the enthusiasm and energy of aspiring scientists. This youth movement will be a platform for students to explore and stay engaged in science, technology, engineering, and mathematics.

SINGAPORE R&D Talent Framework

The R&D talent framework, through the different areas of impactful research, builds up a base of talent that crosses disciplinary boundaries.

National Research Foundation - Interdisciplinary research Young Researchers of ALL Nationalities

The Singapore National Research Foundation (NRF) Fellowship scheme is a key initiative to attract and root young scientific talent to Singapore. The NRF Fellowship is open to all areas of science and technology, and scientists of all nationalities are welcome to apply. NRF Fellows are given complete independence and freedom to pursue their own research directions. They are also free to choose the host organisation which they think is the best environment for their research.

The Returning Singaporean Scientists Scheme seeks to attract back talented and established overseas-based Singaporean researchers and provide them with the funding and opportunity to relocate their research to Singapore. Under this scheme, NRF provides opportunities for highly capable Overseas Singaporeans (OS) to continue their research careers in Singapore and eventually take up research leadership positions here.

Returning Singaporean Scientists Scheme

Ministry of Health - Biomedical research

The Ministry of Health (MOH)'s talent development programmes seek to nurture and support a critical mass of clinician scientists in Singapore. Clinician scientists perform research, and convert laboratory discoveries into new drugs, devices and diagnostics that benefit patients in the treatment of diseases and illnesses. These programmes build Singaporean talents through scholarships, research training fellowships, and research grant awards. Such efforts have attracted some Singapore clinician scientists who have built their reputations overseas, to return home to mentor the next generation.

The MOH Research Scholarships are awarded to outstanding clinicians in their final year Basic Specialist Training, Advanced Specialist Training and Residency Training. Applicants should be working in public health institutions, and have the desire to pursue a PhD in health and medical research.

Clinicians for a PhD in Medical Research

Agency for Science, Technology and Research (A*STAR) - Undergraduate and Graduate Research

A*STAR has pioneered a series of programmes to grow the local PhD talent pool in the research institutes (RIs) and increase the enrollment of Singaporean students in the engineering and science PhD programmes at the local universities. A number of PhD scholarship programmes were launched in 2001 to build a pipeline of local PhD talents, and to date, A*STAR has attracted more than 1,000 talented young local PhDs, of which 25% of A*STAR fellows and scholars have completed their training and are contributing to R&D in the public or private sector. The remaining majority are in the process of working towards a PhD or obtaining post-doctoral experience.

Develop and Sustain a Pipeline of Young Talent

A*STAR has also initiated an extensive range of outreach programmes to develop and sustain a pipeline of young talent. Through these programmes, A*STAR works closely with the Ministry of Education, Science Centre Singapore, schools and the scientific community to augment the capacity of educators and scientists to mentor and guide students in research projects. The Singapore Academy for Young Engineers and Scientists (SAYES) has been established to galvanise the enthusiasm and energy of aspiring scientists. This youth movement will be a platform for students to explore and stay engaged in science, technology, engineering, and mathematics.

Develop and Sustain a Pipeline of Young Talent

Harness the Pipeline of Young Filipino PhDs Abroad

100-300 PhDs in S&T in the next three years will be graduating worldwide State of the Art Research (3-10 Publications) in Hot Multidisciplinary Fields Ask them to propose a return to the Philippines to develop research programs

Focus on Funding Researchers not Institutions

Attract Filipino Research Talent with Recent PhD in S&T to Come Home Researchers are funded for three years at <u>any</u> Institution Innovation Center, Industry-Academe Partnership, Academe, Industry Institute

Bring Back 5 Young Researcher Every Year for 5 Years

Select them for Viable Spin-Offs to Industry / Entrepreneurship Potential Select them for the Research Network for International Collaborations Create Research Faculty Positions for the Returnees