

STATISTICS ON DEPLOYMENT OF SCIENCE AND TECHNOLOGY OFWs: 1998-2009

Background

Statistics from this LABSTAT Updates was culled from the study entitled *“International Migration of Science and Technology Manpower-OFWs”* - a publication of the Science Education Institute, Department of Science and Technology (SEI-DOST) published in 2011.

This study attempts to do an accounting of temporary migration (Overseas Contract Workers) of science and technology (S&T) occupations in the Philippines as bases for human resource development policies particularly S&T workers.

The study is a follow up to the 2008 SEI-DOST first report entitled: *“Emigration of Science and Technology Education Filipinos”* which dealt with permanent migrants Filipino S&T professionals based largely on the data series produced by the Commission on Filipinos Overseas (CFO).

In this report, *new hire* is defined as landbased worker being contracted for overseas employment for the first time by a foreign employer through duly licensed placement agency.

Annual Outflow of S&T OFWs: Level and Trend

- Over the twelve-year period 1998-2009, the annual outflow of science and technology (S&T) OFWs (new hires) more than doubled, increasing from 9,877 to 24,502 - an average of 15,555 a year.
- The year-on-year change in the data series exhibited a volatile trend – with peak in 2001 (58.7%) and trough in 2003 (-27.9%). On the overall, deployment of S&T OFWs grew by 148.1% over the period under review or an annual average growth rate of 10.9%.
- It is noted that S&T deployment represents only a fraction of the annual outflow of temporary OFWs (new hires) – an average of 5.6 percent share. The proportion, however, has risen steadily from 4.5% in 1998 to 7.4% in 2009.

About two in every three S&T OFWs were women

- There were more women S&T OFWs deployed (new hires) than men. On the average, women accounted for about 60.0% of annual deployment and the rest (40.0%) by their counterpart male during the 1998-2009 period.
- The proportion of women in S&T deployment has been rising overtime – 50.3% in 1998 to 57.8% in 2009. In contrast, the proportion has fallen among men – 49.6% in 1998 to 42.2% in 2009.

Nurses and Engineers topped S&T OFWs deployment

- Deployment of S&T OFWs was dominated by nursing and midwifery professionals – they accounted for 60.1% of average annual deployment from 1998 to 2009. Women comprised the vast majority (86.5%) of the annual deployment of nurses as reported in the study.
- Engineers and related professionals ranked second in importance – at 26.5% of average annual deployment. Male dominated the deployment for this occupation group – an average of 96.1% of total deployment.
- Health professionals (except nursing/midwifery) and computing professionals comprised the other notable occupations in S&T OFWs deployment – 9.2% and 3.2% of average annual deployment, respectively.
- Percentage shares were observed negligible for the following occupations: physicists, chemists and related professionals (0.4%); life science professionals (0.4%); and mathematicians, statisticians and related professionals (0.3%).

Saudi Arabia, United Kingdom and United States top three destinations of S&T OFWs

- Saudi Arabia represents the biggest market of S&T OFWs as it accounted for 58.3% of average annual deployment from 1998-2009.
- The rest of the deployments were distributed across eighteen countries, mainly in United Kingdom (8.5%), United Arab Emirates (6.6%), Qatar (5.4%), United States (3.7%), and Singapore (3.3%).

**TABLE 1 - Deployment of Science and Technology Overseas Filipino Workers
by Sex, Philippines: 1998-2009**

YEAR	Total Deployment (New Hires)	S&T OFW Deployment								
		Number	Year-on-Year Change (%)	% to Total Deployment	Male		Female		Not Stated	
					No.	%	No.	%	No.	%
1998	219,724	9,877		4.5	4,903	49.6	4,973	50.3	1	*
1999	237,414	9,546	(3.4)	4.0	4,200	44.0	5,346	56.0	-	-
2000	253,032	11,186	17.2	4.4	4,116	36.8	7,070	63.2	-	-
2001	269,750	17,756	58.7	6.6	5,052	28.5	12,704	71.5	-	-
2002	286,127	16,969	(4.4)	5.9	5,279	31.1	11,688	68.9	2	*
2003	241,511	12,242	(27.9)	5.1	3,535	28.9	8,706	71.1	1	*
2004	281,813	13,345	9.0	4.7	4,477	33.5	8,860	66.4	8	0.1
2005	280,661	12,185	(8.7)	4.3	4,893	40.2	7,289	59.8	3	*
2006	302,673	15,945	30.9	5.3	7,621	47.8	8,323	52.2	1	*
2007	305,554	18,771	17.7	6.1	9,176	48.9	9,591	51.1	4	*
2008	338,181	24,330	29.6	7.2	11,965	49.2	12,364	50.8	1	*
2009	331,752	24,502	0.7	7.4	10,348	42.2	14,153	57.8	1	*
AVERAGE (1998-2009)	279,016	15,555	13.5	5.6	6,297	40.5	9,256	59.5	2.0	0.0

* Less than 0.1 percent.

Source of data: Philippine Overseas Employment Administration.

**TABLE 2 - Deployment (New Hires) of Science and Technology Overseas Filipino Workers
by Major Occupations and Country of Destination, Philippines: 1998-2009**

OCCUPATION/COUNTRY OF DESTINATION	Annual Average	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
TOTAL S&T DEPLOYMENT (NEW-HIRES)	15,555	9,877	9,546	11,186	17,756	16,969	12,242	13,345	12,185	15,945	18,771	24,330	24,502
Major Occupation													
Physicists, Chemists and Related Professionals	63	33	25	20	33	36	13	108	79	69	85	106	154
Mathematicians, Statisticians and Related Prof.	40	19	32	16	27	35	20	21	12	34	101	76	91
Computing Professionals	497	1,073	808	470	584	340	212	217	208	338	624	634	455
Engineers and Related Professionals	4,117	3,016	2,265	2,104	1,749	2,702	2,255	2,739	3,252	5,314	7,106	9,308	7,591
Life Science Professionals	63	43	32	23	14	37	62	112	109	132	51	95	43
Health Professionals (except nursing)	1,426	953	905	815	1,337	1,640	436	1,284	1,201	1,615	1,952	2,213	2,763
Nursing and Midwifery Professionals	9,348	4,740	5,479	7,738	14,012	12,179	9,244	8,864	7,324	8,443	8,852	11,898	13,405
Country of Destination (Top Ten)													
Saudi Arabia	9,066	6,642	5,970	5,693	7,647	8,813	7,557	8,087	7,111	9,481	11,559	13,968	16,269
United States of America	581	826	675	493	702	625	385	561	371	515	487	896	431
United Kingdom	1,316	72	946	2,641	5,400	3,155	1,551	858	602	190	79	105	197
United Arab Emirates	1,030	394	519	536	485	659	377	607	1,168	1,545	1,783	2,667	1,616
Singapore	521	410	361	690	584	559	369	313	277	333	515	898	945
Kuwait	356	202	119	200	273	183	-	492	341	551	479	554	524
Libya	282	192	91	55	86	654	236	-	-	295	149	360	700
Malaysia	189	146	53	-	-	-	-	-	-	-	301	256	-
Qatar	836	125	-	-	208	352	356	679	792	1,010	1,416	1,984	1,433
Taiwan	153	-	48	-	-	165	246	-	-	-	-	-	-

Source of data: *Philippine Overseas Employment Administration.*

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