

تم إعداد هذا التقرير حسب الإجراءات المعيارية المحددة في ميثاق الممارسات للإحصاءات الرسمية الفلسطينية 2006



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الجهاز المركزي للإحصاء الفلسطيني . : 1647

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Tables

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Table 1: Main Indicators For Research and Development (R&D) in the West Bank by Selected Years

Indicator	Yea	r		
indicator	2009	2008	2007	
Number of Enterprises Engaged in R&D that completed interview	*47	40	38	
Number of R&D Personnel	2,951	1,542	1,555	
Number of R&D Personnel with Full – Time Equivalent (FTE)	1,167	669	566	
Number of Researchers in R&D	1,550	992	981	
Number of Researchers (Males) in R&D	1,259	765	744	
Number of Researchers (Females) in R&D	291	227	237	
Number of Researchers in R&D with FTE	569	363	280	
Number of Researchers in R&D with FTE Per Million inhabitants	232	150	120	
Total Expenditure on R&D (million\$)	28.8	10.9	11.5	()
Percentage of External Funds for R&D	26.3	40.3	50.4	
Expenditure on R&D Per Researcher with FTE (Thousands \$)	51	30	41	()
Number of Researches, Studies, and Consultations	1,638	1,167	982	
Percentage of Studies and Consultations	66.3	54.1	49.8	
Percentage of Basic Research	14.2	19.9	25.8	(/)
Percentage of Applied Research	13.6	19.0	18.1	
Percentage of Experimental Development Researches	5.9	7.0	6.3	

^{*} An enterprise and its branches were treated as one unit, e.g. Birzeit university and its centers.

^{*} تم التعامل مع بعض المؤسسات وفروعها على أنها وحدة واحدة، مثل معاهد ومراكز جامعة بير زيت.

Table 2: Main Indicators For Research and Development (R&D) in the West Bank and Gaza Strip, 2008

	Year	
Indicator	*	1
	2008	2008
Number of Enterprises Engaged in R&D that completed interview	16	40
Number of R&D Personnel	917	1,542
Number of Researchers in R&D	680	992
Number of Researchers (Males) in R&D	618	765
Number of Researchers (Females) in R&D	62	227
Number of Researchers in R&D with FTE	279	363
Number of Researchers in R&D with FTE Per Million inhabitants	194	150
Number of Researchers by Educational Attainment		
Secondary and Less	0	0
Associate Diploma	9	3
Bachelor	79	191
Higher Diploma	0	2
Master	176	406
Ph.D.	416	390
Total	680	992
Number of Researchers by Fields of Science		
Physical Sciences	163	99
Engineering & Technology	59	161
Medical Sciences	62	60
Agricultural Sciences	30	43
Social Sciences	139	256
Humanities Sciences	227	373
Total	680	992

^{*} Source: Applied Research Institute (ARIJ), 2009. survey of Scientific Research in Palestine, 2009. .2009 () :

Table 3: Research and Development Personnel in the West Bank by occupation and Sex, 2009

		Occupation	on			
Sex	Total	Others	Technicians	Researchers	Administrators	
Males	2,147	189	282	1,259	417	
Females	804	53	99	291	361	
Both Sexes	2,951	242	381	1,550	778	

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Table 4: Research And Development Personnel in the West Bank by Occupation and Full – Time Equivalent, 2009

		Occupation	on		الوظيفة	
Full – Time Equivalent	Total	Others	Technicians	Researchers	Administrators	معادل الوقت التام
Less than 10%	634	134	52	44	404	أقل من 10%
10% - 30%	1,123	15	91	963	54	%30 - %10
31% - 50%	264	19	6	207	32	%50 - %31
51% - 70%	177	1	9	64	103	%70 - %51
71% - 90%	112	27	29	41	15	%90 - %71
91% - 100%	641	46	194	231	170	%100 - %91
Total	2,951	242	381	1,550	778	

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Table 5: Research and Development Personnel in the West Bank by Occupation and Educational Attainment, 2009

		Occupat	ion			
Educational Attainment	Total	Others	Technicians	Researchers	Administrators	
Secondary and Less	274	202	24	0	48	
Associate Diploma	277	20	109	5	143	
Bachelor	834	16	206	253	359	
Higher Diploma	16	0	4	7	5	
Master	815	3	36	635	141	
Ph.D.	735	1	2	650	82	
Total	2,951	242	381	1,550	778	المجموع

Table 6: Researchers in Research and Development in the West Bank by Fields of Science, 2009

Field of Science	No. of Researchers
Physical Sciences	237
Engineering & Technology	161
Medical Sciences	117
Agricultural Sciences	59
Social Sciences	417
Humanities Sciences	559
Total	1,550

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Table 7: Research and Development Personnel in the West Bank by Sector of Employment and Sex, 2009

		Sex		
Sector of Employment	Total	Females	Males	
Governmental	499	153	346	
Non Governmental Organizations	367	124	243	
Higher Education	2,085	527	1,558	
Total	2,951	804	2,147	

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Table 8: Research and Development Personnel in the West Bank by Sector of Employment and Occupation, 2009

		Occupati	on			
Sector of Employment	Total	Others	Technicians	Researchers	Administrators	
Governmental	499	36	156	170	137	
Non Governmental Organizations	367	63	30	132	142	
Higher Education	2,085	143	195	1,248	499	
Total	2,951	242	381	1,550	778	المجموع

Table 9: Percentage Distribution of Researches in the West Bank by Type, 2009

Type of Research	Percentage	
Studies and Consultations	66.3	
Basic Researches	14.2	(/)
Applied Researches	13.6	
Experimental Development Researches	5.9	
Total	100	

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Table 40: Outputs of Research and Revelopment in the West Renk b

Table 10: Outputs of Research and Development in the West Bank by Type, 2009

Outputs	Number
National Prizes for Researchers and Inventors	8
International Prizes for Researchers and Inventors	13
Patents	0
Publications in National Magazines	485
Publications in Peer review Magazines	251
National Researches	171
International Researches	168
International Standard Book Number (ISBN)	55
Citation Index	26

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Table 11: Value of Expenditure (1000 US\$) and Percentage Distribution on Research and Development in the West Bank by Sector of Employment, 2009

Sector of Employment	Percentage	Value
Governmental	34.2	9,850
Non Governmental Organizations	17.5	5,041
Higher Education	48.3	13,931
Total	100	28,822