

Survey of Research and experimental development

In order to meet the needs of users for research and experimental development activities, the Statistical Center of Iran has implemented a Survey Research and experimental development successively every two years since the year 1376¹

The overall objective of the implementation of the Survey of Research and experimental development is to provide and produce the required statistics based on the Frascati Manual to determine important indicators of research and experimental development, including the number of researchers, research and experimental development expenditures and meeting the statistical needs of the planning organizations. This Survey includes the following three statistical population:

1. Enterprises and institutes providing research and development services that were specified in the International Standard Industrial Classification of All Economic Activities, Revision 4 (ISIC Rev4) with the following four-digit codes:

721

Other R&D personnel in full-time equivalent (FTE)

The results of the survey in enterprises with research and development activities depict that other full-time equivalent R&D personnel in the year 1398 were 66103 people. Of these, 38,764 (58.6%) were technicians and 27,339 (41.4%) were office and support staff.

Number and percentage of R&D projects by type

According to the results of the survey enterprises with research and development activities in the year 1398, 125097 research projects were conducted. In view of project type, the applied project with 55.1% had the highest share of other completed projects. The shares of development projects and fundamental projects were 26.4% and 18.5%, respectively.

Research and development expenditures by cost

According to the results of the survey of enterprises with research and development activities in the year 1398, R&D expenditures were 215706453 million rials, in which Cost of researcher with 40.1 percent enjoyed the largest share. Capital expenditures with an amount of 47445941 million rials and with a share of 22% were in the second stand of research and development expenditures. The share of Cost of other R&D personnel was 17.1% and other current expenditures account for 20.7% of the total R&D costs.

Time Series Tables of the Survey Results

Number and percentage of researchers in headcount (HC) by sex

Year	Description	Total	Male	Female
1391	Number	72169	53822	18347
	Percent.....	100	74.6	25.4
1392	Number	73025	54708	18317
	Percent.....	100	74.9	25.1
1394	Number	107595	75935	31660
	Percent.....	100	70.6	29.4
1396	Number	118987	81841	37146
	Percent.....	100	68.8	31.2
1398	Number	137592	94342	43251
	Percent.....	100	68.6	31.4

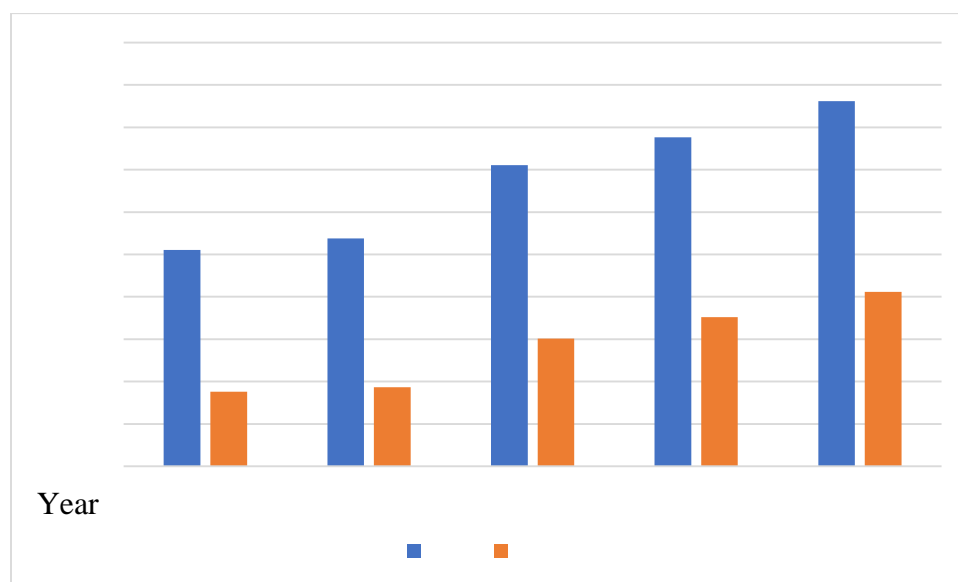


Chart 1. Number and percentage of researchers in headcount(HC) by sex

Number and percentage of researchers in full-time equivalent (FTE) by sex

Year	Description	Total	Male	Female
1391	Number	72169	53822	18347
	Percent	100	74.6	25.4
1392	Number	73025	54708	18317
	Percent.....	100	74.9	25.1
1394	Number	107595	75935	31660
	Percent.....	100	70.6	29.4
1396	Number	118987	81841	37146
	Percent.....	100	68.8	31.2
1398	Number	137592	94342	43251
	Percent.....	100	68.6	31.4

Number and percentage of other R&D personnel in headcount (HC) by function and sex

Year	Description	Total			Technicians and equivalent staff			Other supporting staff		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
1391	Number ...	63829	50973	12856	42279	35290	6989	21550	15683	5867
	Percent	100	79.9	20.1	100	83.5	16.5	100	72.8	27.2
1392	Number ...	63641	50262	13379	42594	34930	7664	21047	15332	5715
	Percent	100	79	21	100	82	18	100	72.8	27.2
1394	Number ...	73041	57122	15919	47639	38776	8863	25402	18346	7056
	Percent	100	78.2	21.8	100	81.4	18.6	100	72.2	27.8
1396	Number ...	73892	58116	15776	45487	37964	7523	28405	20152	8253
	Percent	100	78.7	21.3	100	83.5	16.5	100	70.9	29.1
1398	Number ...	75018	59438	15581	42774	37243	5531	32245	22195	10050
	Percent	100	79.2	20.8	100	87.1	12.9	100	68.8	31.2

Number and percentage of other R&D personnel in full-time equivalent (FTE) by function and sex

Year	Description	Total			Technicians and equivalent staff			Other supporting staff		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1391	Number	58467	42266	11201	38396	32440	5956	20071	14826	5245
	Percent	100	72.3	19.2	100	84.5	15.5	100	73.9	26.1
1392	Number	59491	47324	12167	39705	32771	6934	19786	14553	5233
	Percent	100	79.5	20.5	100	82.5	17.5	100	73.6	26.4
1394	Number	66557	52622	13935	43207	35519	7688	23350	17102	6248
	Percent	100	79.1	20.9	100	82.2	17.8	100	73.2	26.8
1396	Number	64946	51668	13278	40080	33814	6266	24866	17854	7012
	Percent	100	79.6	20.4	100	84.4	15.6	100	71.8	28.2
1398	Number	66103	53298	12805	38764	34139	4625	27339	19159	8180
	Percent	100	80.6	19.4	100	88.1	11.9	100	70.1	29.9

Number and percentage of R&D projects by type

Year	Description	Total	Basic	Applied	Experimental development
1391	Number	83827	19319	49075	15433
	Percent	100	23.1	58.5	18.4
1392	Number	84678	17971	50258	16449
	Percent	100	21.2	59.4	19.4
1394	Number	108500	20152	58086	30262
	Percent	100	18.6	53.5	27.9
1396	Number	122482	21949	65638	34895
	Percent	100	17.9	53.6	28.5
1398	Number	125097	23139	68871	33087
	Percent	100	18.5	55.1	26.4

R&D expenditures by year and type of costs (million rials)

Year	Description	Total	Current costs				
1391	Value.....	42462404	33142112	15484838	8217217	9440057	9320292
	Percent ...	100	78.1	36.5	19.4	22.2	21.9
1392	Value.....	50901293	41300064	19998530	10682389	10619145	9601229
	Percent ...	100	81.1	39.3	21	20.9	18.9
1394	Value.....	103160782	78271214	38775262	17239261	22256691	24889568
	Percent ...	100	75.9	37.6	16.7	21.6	24.1
1396	Value.....	127167830	99262021	53289441	21706351	24266229	27905809
	Percent ...	100	78.1	41.9	17.1	19.1	21.9
1398	Value.....	215706453	168260512	86626802	36930683	44703027	47445941
	Percent	100	78.0	40.1	17.1	20.7	22.0

*.Difference in totals is due to rounding the figures.