

Table 11. Federal scientists and engineers, by major occupational group and age: 1998-2002

Major occupational group and age ¹	1998	1999	2000	2001	2002
All occupations	189,713	186,891	187,396	193,448	206,182
Under 35 years	29,447	26,094	24,487	25,623	29,318
35 - 39 years	33,630	32,220	30,447	28,609	27,532
40 - 44 years	32,246	32,820	33,803	35,289	37,361
45 - 49 years	32,516	32,217	32,632	33,825	35,842
50 - 54 years	30,876	31,604	32,771	33,569	34,932
55 - 59 years	19,296	19,872	20,639	22,795	25,568
60 - 64 years	8,372	8,642	8,963	9,745	11,140
65 years and over	3,330	3,422	3,654	3,992	4,485
All scientists	103,483	103,301	104,790	110,291	120,824
Under 35 years	14,689	13,804	13,717	14,972	17,548
35 - 39 years	14,802	14,425	14,140	14,005	14,457
40 - 44 years	18,125	17,480	17,127	17,532	18,758
45 - 49 years	20,397	20,405	20,502	21,036	22,183
50 - 54 years	18,471	19,160	20,247	21,307	22,872
55 - 59 years	10,991	11,640	12,348	13,883	16,046
60 - 64 years	4,340	4,635	4,853	5,487	6,559
65 years and over	1,668	1,752	1,856	2,069	2,400
Computer and mathematical scientists	28,073	27,963	28,339	31,525	39,223
Under 35 years	3,669	3,131	2,930	3,366	4,789
35 - 39 years	4,439	4,423	4,281	4,416	4,928
40 - 44 years	4,809	4,731	4,800	5,295	6,650
45 - 49 years	5,652	5,589	5,597	6,078	7,335
50 - 54 years	5,280	5,572	5,909	6,569	7,796
55 - 59 years	2,880	3,091	3,353	4,010	5,316
60 - 64 years	1,051	1,114	1,145	1,385	1,873
65 years and over	293	312	324	406	536
Life scientists	28,600	28,847	29,525	30,699	32,405
Under 35 years	3,875	3,741	3,778	4,101	4,734
35 - 39 years	4,194	4,020	3,974	3,865	3,924
40 - 44 years	5,651	5,380	5,152	5,092	5,071
45 - 49 years	6,303	6,397	6,512	6,575	6,504
50 - 54 years	4,855	5,237	5,699	6,010	6,420
55 - 59 years	2,485	2,729	2,979	3,451	3,887
60 - 64 years	881	961	1,045	1,181	1,357
65 years and over	356	382	386	424	508

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Major occupational group and age	1998	1999	2000	2001	2002
Physical scientists	23,927	23,639	23,442	23,561	23,851
Under 35 years	3,011	2,800	2,622	2,595	2,720
35 - 39 years	3,116	2,919	2,804	2,654	2,527
40 - 44 years	4,036	3,929	3,800	3,714	3,626
45 - 49 years	4,190	4,211	4,264	4,314	4,320
50 - 54 years	4,135	4,171	4,258	4,298	4,268
55 - 59 years	3,243	3,299	3,263	3,358	3,485
60 - 64 years	1,516	1,612	1,671	1,798	1,990
65 years and over	680	698	760	830	915
Social scientists	22,883	22,852	23,484	24,506	25,345
Under 35 years	4,134	4,132	4,387	4,910	5,305
35 - 39 years	3,053	3,063	3,081	3,070	3,078
40 - 44 years	3,629	3,440	3,375	3,431	3,411
45 - 49 years	4,252	4,208	4,129	4,069	4,024
50 - 54 years	4,201	4,180	4,381	4,430	4,388
55 - 59 years	2,383	2,521	2,753	3,064	3,358
60 - 64 years	892	948	992	1,123	1,339
65 years and over	339	360	386	409	441
All engineers	86,230	83,590	82,606	83,157	85,358
Under 35 years	14,758	12,290	10,770	10,651	11,770
35 - 39 years	18,828	17,795	16,307	14,604	13,075
40 - 44 years	14,121	15,340	16,676	17,757	18,603
45 - 49 years	12,119	11,812	12,130	12,789	13,659
50 - 54 years	12,405	12,444	12,524	12,262	12,060
55 - 59 years	8,305	8,232	8,291	8,912	9,522
60 - 64 years	4,032	4,007	4,110	4,258	4,581
65 years and over	1,662	1,670	1,798	1,923	2,085
Aerospace engineers	7,578	7,451	7,519	7,734	8,025
Under 35 years	1,719	1,461	1,354	1,314	1,329
35 - 39 years	1,834	1,857	1,777	1,704	1,584
40 - 44 years	1,169	1,346	1,586	1,783	1,901
45 - 49 years	743	761	829	941	1,146
50 - 54 years	786	768	763	779	767
55 - 59 years	742	680	635	623	637
60 - 64 years	424	405	395	390	448
65 years and over	161	173	180	200	213

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Major occupational group and age	1998	1999	2000	2001	2002
Chemical engineers	1,019	1,015	983	980	1,012
Under 35 years	197	190	177	190	229
35 - 39 years	224	204	167	140	118
40 - 44 years	206	210	225	235	224
45 - 49 years	113	122	134	130	160
50 - 54 years	112	119	100	102	102
55 - 59 years	89	94	93	101	89
60 - 64 years	51	49	56	44	59
65 years and over	27	27	31	38	31
Civil engineers	11,058	10,650	10,418	10,512	10,668
Under 35 years	1,528	1,356	1,253	1,324	1,457
35 - 39 years	1,699	1,456	1,290	1,189	1,097
40 - 44 years	2,087	2,123	2,055	1,949	1,859
45 - 49 years	2,044	1,946	2,013	2,068	2,085
50 - 54 years	1,893	1,953	1,950	1,936	1,947
55 - 59 years	1,136	1,126	1,138	1,281	1,371
60 - 64 years	502	506	509	532	596
65 years and over	169	184	210	233	255
Electrical, electronics, and computer engineers	27,449	26,430	25,771	25,953	26,703
Under 35 years	5,516	4,361	3,481	3,334	3,751
35 - 39 years	6,832	6,606	6,145	5,548	4,916
40 - 44 years	4,195	4,604	5,151	5,696	6,194
45 - 49 years	3,511	3,464	3,483	3,710	3,920
50 - 54 years	3,521	3,510	3,547	3,440	3,373
55 - 59 years	2,342	2,345	2,344	2,475	2,700
60 - 64 years	1,061	1,074	1,115	1,212	1,273
65 years and over	471	466	505	537	575
Industrial engineers	1,981	1,818	1,695	1,644	1,706
Under 35 years	366	269	222	220	268
35 - 39 years	405	373	329	275	244
40 - 44 years	315	335	315	334	347
45 - 49 years	260	248	239	239	252
50 - 54 years	330	311	300	267	258
55 - 59 years	169	162	172	191	212
60 - 64 years	103	87	78	76	82
65 years and over	33	33	40	42	43

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Major occupational group and age	1998	1999	2000	2001	2002
Mechanical engineers	9,151	8,931	8,696	8,826	9,314
Under 35 years	1,855	1,667	1,572	1,756	2,078
35 - 39 years	2,322	2,145	1,840	1,551	1,376
40 - 44 years	1,494	1,650	1,809	1,954	2,051
45 - 49 years	1,096	1,105	1,103	1,197	1,325
50 - 54 years	1,146	1,109	1,074	1,028	1,011
55 - 59 years	711	723	757	797	876
60 - 64 years	370	371	362	371	403
65 years and over	157	161	179	172	193
Other engineers	27,994	27,295	27,524	27,508	27,930
Under 35 years	3,577	2,986	2,711	2,513	2,658
35 - 39 years	5,512	5,154	4,759	4,197	3,740
40 - 44 years	4,655	5,072	5,535	5,806	6,027
45 - 49 years	4,352	4,166	4,329	4,504	4,771
50 - 54 years	4,617	4,674	4,790	4,710	4,602
55 - 59 years	3,116	3,102	3,152	3,444	3,637
60 - 64 years	1,521	1,515	1,595	1,633	1,720
65 years and over	644	626	653	701	775

¹ Age was not reported for one individual in 2001 and four individuals in 2002.

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files.