

Appendix table A-13  
**Doctoral scientists and engineers in 1999:  $\beta_0$  and  $\beta_1$  parameters for specified demographic groups**

Degree field and occupation	Parameter	Total	Male	Female	White	Nonwhite
All doctoral scientists and engineers.....	$\beta_0$	-0.00002	-0.00006	-0.00005	-0.00004	-0.00015
	$\beta_1$	97.06564	94.44642	88.59845	107.28630	72.96765
Field of highest degree						
Computer/mathematical sciences.....	$\beta_0$	-0.00028	-0.00037	-0.00179	-0.00052	-0.00077
	$\beta_1$	37.62834	41.62299	27.24175	44.38081	32.07953
Life sciences.....	$\beta_0$	-0.00010	-0.00016	-0.00036	-0.00009	-0.00037
	$\beta_1$	32.56587	34.01286	44.64157	31.20354	40.15677
Physical sciences.....	$\beta_0$	-0.00014	-0.00016	-0.00039	-0.00018	-0.00054
	$\beta_1$	33.70681	32.82507	32.26803	36.01126	37.70068
Social sciences.....	$\beta_0$	-0.00010	-0.00017	-0.00018	-0.00011	-0.00039
	$\beta_1$	29.98008	32.29567	25.01193	29.31617	26.69858
Engineering.....	$\beta_0$	-0.00012	-0.00012	-0.00156	-0.00022	-0.00004
	$\beta_1$	28.61567	29.07171	26.60185	32.84335	25.55628
Non-S&E.....	$\beta_0$	-0.00072	-0.00173	-0.00232	-0.00095	-0.00332
	$\beta_1$	373.32905	421.22255	303.59259	408.92508	249.95700
Occupation						
Computer/mathematical scientist.....	$\beta_0$	-0.00024	-0.00046	-0.00115	-0.00030	-0.00060
	$\beta_1$	53.37508	58.66742	68.91037	63.31541	36.09954
Life scientist.....	$\beta_0$	-0.00009	-0.00015	0.00008	-0.00009	-0.00031
	$\beta_1$	37.65423	37.61122	43.76323	36.29873	36.57734
Physical scientist.....	$\beta_0$	-0.00013	-0.00009	-0.00066	-0.00024	-0.00021
	$\beta_1$	36.16038	34.36691	41.93698	38.15836	39.51903
Social scientist.....	$\beta_0$	0.00010	0.00029	-0.00024	0.00008	-0.00068
	$\beta_1$	64.45554	82.28239	51.60141	62.99938	54.08267
Engineer.....	$\beta_0$	-0.00010	-0.00009	-0.00154	-0.00009	0.00008
	$\beta_1$	33.29740	34.74466	27.23506	29.48511	34.03765
Non-S&E occupation.....	$\beta_0$	-0.00011	-0.00028	-0.00017	-0.00020	-0.00064
	$\beta_1$	182.29262	190.08102	166.29516	201.24602	134.47307

**NOTES:** "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation during the 1990s SESTAT surveys. "White" excludes persons of Hispanic origin, who are instead included in the "nonwhite" category.

**SOURCE:** National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).