

Science and engineering profile: Massachusetts

Characteristic	State	U.S. total	Rank
Employed SEH doctorate holders, 2006	32,400	620,140	4
S&E doctorates awarded, 2006	1,724	29,854	4
Life sciences (%)	26	26	–
Engineering (%)	22	24	–
Social sciences (%)	18	14	–
SEH postdoctorates in doctorate-granting institutions, 2006	6,670	49,201	2
SEH graduate students in doctorate-granting institutions, 2006	27,109	542,073	4
Population, 2007 (thousands)	6,450	305,563	14
Civilian labor force, 2007 (thousands)	3,408	154,046	13
Personal income per capita, 2006 (\$)	46,255	36,629	4
Federal spending			
Total expenditures, 2005 (\$millions)	55,830	2,260,098	14
R&D obligations, 2005 (\$millions)	5,702	106,845	4
Total R&D performance, 2005 (\$millions)	17,757	310,194	3
Industry R&D, 2005 (\$millions)	13,342	222,427	3
Academic R&D, 2006 (\$millions)	2,159	47,735	6
Life sciences (%)	49	60	–
Engineering (%)	18	15	–
Physical sciences (%)	12	8	–
SBIR awards, 2000–06	5,217	38,825	2
Utility patents issued to state residents, 2006	4,011	89,820	4
Gross domestic product, 2006 (\$billions)	338	13,235	13

– = no value possible.

S&E = science and engineering; SEH = science, engineering, and health; SBIR = small business innovation research.

NOTES: Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Rankings are based on unrounded totals; they do not account for margin of error of estimates from sample surveys. Employed SEH doctorate holders include only recipients of U.S. doctoral degrees. State estimates for employed SEH doctorate holders may have large sampling errors because the source for these data, the Survey of Doctorate Recipients, was not designed to provide a sample for estimates at the state level; these data are classified by the state where the doctorate holder resides, if known; otherwise, data are classified by employer's location.

Federal obligations for research and development, by agency and performer: Massachusetts, FY 2005 (Thousands of dollars)

Agency	Performer						Rank	
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State, local governments
All agencies	5,701,829	445,920	495,166	2,105,331	1,358,760	1,261,971	34,681	4
Department of Agriculture	25,124	16,567	0	11	8,012	534	0	31
Department of Commerce	26,815	8,215	0	6,197	12,274	129	0	7
Department of Defense	2,793,528	331,394	486,055	1,801,691	128,135	46,253	0	6
Department of Energy	115,355	50	0	25,578	87,390	2,337	0	12
Department of Health and Human Services	2,206,751	1,268	0	153,106	863,990	1,187,732	655	3
Department of Homeland Security	41,941	32,640	4,598	3,125	93	1,485	0	10
Department of the Interior	10,483	9,964	0	176	301	42	0	11
Department of Transportation	61,681	45,672	4,513	6,768	4,728	0	0	2
Environmental Protection Agency	5,449	150	0	620	3,699	292	688	17
National Aeronautics and Space Administration	160,987	0	0	92,350	33,278	2,021	33,338	7
National Science Foundation	253,715	0	0	15,709	216,860	21,146	0	3
Rank	4	9	5	6	6	1	4	–

– = no value possible.

FFRDC = federally funded research and development center.

NOTES: Federal R&D obligations are as reported by funding agencies. Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources; see the section, "Data Sources for Science and Engineering State Profiles".