

# Commonwealth of Massachusetts Employment Projections 2006-2016

Current and Projected Employment for Industries and Occupations



Commonwealth of Massachusetts  
Executive Office of Labor and  
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# Employment Projections 2006-2016

## How this report is organized

This report provides detailed employment projections for more than 100 industries and 400 occupations. It is divided into two sections. Section I identifies the current and projected number of jobs for major industries within the Massachusetts economy. Section II identifies the occupational outlook, providing information on current and projected number of jobs within occupations, the wages they pay, and the education and training generally required for employment.

## How to use the data

These projections are not and cannot be precise forecasts. Instead, they are indicators of the relative size, general direction and likely future impact of industrial and occupational changes within the state economy.

These projections were completed during a time of unprecedented economic turmoil. The nation entered a recession late in 2007 and the economy was seriously disrupted at the end of 2008 when the credit markets froze. As this document neared its publication date, Congress was expected to enact an economic stimulus package; but the ultimate scope and nature of the program were undecided.

It is always difficult to project changes in employment, but the dramatic events that are currently taking place make forecasting especially uncertain. The Department of Workforce Development will continue to monitor economic developments as they unfold.

The three data series presented in this report are collected from payroll surveys of Massachusetts companies, and as such, count jobs rather than people. Therefore, individuals who hold more than one job are counted in each place of work. Each data series is explained below.

**Industry Employment Data.** These counts are derived from the Current Employment Statistics (CES) Program. Industries covered in this program are defined in terms of the 2002 North American Industry Classification System (NAICS). This coding system divides the business activities of all firms into broad sectors (manufacturing, construction, retail trade, healthcare and social assistance, etc.). These sectors can be further separated into groups of industries such as health care and individual industries such as hospitals and medical testing labs. A detailed description of NAICS definitions is contained in the 2002 edition of The Standard Industrial Classification Manual, a publication of the federal Office of Management and Budget (OMB).



**Occupational Employment Data.** These employment estimates are derived from the Occupational Employment Statistics (OES) Survey, a federal-state cooperative program conducted by the U.S. Bureau of Labor and Statistics and State Employment Security Agencies. In this survey, employers include both part-time and full-time workers for the payroll periods that include the 12th of the month.

Data collected from the May 2006, November 2005, May 2005, November 2004, May 2004, and November 2003 semiannual samples, the most current data in existence at the time the projections were being developed, were used to construct the 2006 statewide industry staffing patterns. The projected 2016 occupational employment levels are derived from Massachusetts industry projections and U.S. occupational change factors that estimate changes in technology, productivity and consumer tastes within industries. Change factors are developed by the U.S. Bureau of Labor Statistics.

**Wage Data.** The 2007 hourly and annual average wages listed for each occupation provide estimates of straight-time and gross pay. Obtained from the 2007 Occupational Employment Statistics (OES) Survey, these estimates exclude premium pay for overtime and shift differentials such as work on weekends, holidays, and late shifts. Also excluded are profit-sharing payments, and other year-end lump sum bonuses. However, pay increases under cost of living allowances and incentive payments such as commissions are included in the estimates.

Annual wages are calculated by multiplying the average hourly wage rates by a “year-round, full-time” hours figure on 2,080 per year (52 weeks by 40 hours). Thus, the annual wage estimates may not represent the actual yearly pay received by workers, since some workers like teachers and musicians may not work year round or have a 40 hour work week.

**Education and Training Classifications.** These categories (see below) describe the education and training needed by most workers to become fully qualified. Developed by the U.S. Bureau of Labor Statistics, these classifications provide insights into the demand for skilled workers and link the importance of education and training to specific occupations. Here is a description of each classification:

- **First Professional Degree (e.g., M.D., J.D.):** This degree is the minimum preparation required to practice law, medicine or dentistry, or to enter the clergy. This degree usually requires at least two years of full-time academic study beyond the bachelor’s degree.
- **Doctoral Degree:** These degrees are primarily in academia and the physical, biological and social sciences. At least three years of full-time academic work beyond the bachelor’s degree are usually required
- **Master’s Degree:** These degrees usually require at least one or two years of education beyond the bachelor’s degree.



- **Work Experience Plus a Bachelor's or Higher Degree** This category includes degrees that are found primarily in management and require experience in a related position: for example, engineers who advance to engineering manager.
- **Bachelor's Degree:** Minimum educational requirements for these degrees, found mostly in professional areas, include four years of full-time academic study after high school.
- **Associate's Degree:** Degrees in this category, many of which are related to health care, require two years of full-time academic work after high school.
- **Post-secondary Vocational Training:** The length and type of training varies for occupations in this category. Some post-secondary vocational training programs last only a few weeks, while others may last a year or more. Some occupations may require passing a licensing exam after completing the training.
- **Long-term On-the-Job Training:** This category includes occupations that usually require more than twelve months of on-the-job training or combined work experience and formal classroom instruction, such as apprenticeships or employer-sponsored training.
- **Moderate-term On-the-Job Training:** Workers in these occupations can achieve average job performance through one to twelve months of combined on-the-job experience and informal training.
- **Short-term On-the-Job Training:** This category includes occupations where workers can achieve the needed skills in one to four weeks of on-the-job training or instruction.

## For More Information

This report is one in a series of reports that examine the key industries and occupations driving the state's economy. If you need additional information, please call (617) 626-5744.

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
	<b>Total Employment</b>	<b>3,454,420</b>	<b>3,671,070</b>	<b>216,650</b>	<b>6.3%</b>
<b>000000</b>	<b>Total Nonfarm Wage and Salary Employment</b>	<b>3,245,980</b>	<b>3,449,500</b>	<b>203,520</b>	<b>6.3%</b>
	Self-Employed	208,440	221,570	13,130	6.3%
<b>101100</b>	<b>Natural Resources and Mining</b>	<b>1,800</b>	<b>1,760</b>	<b>-40</b>	<b>-2.2%</b>
<b>23</b>	<b>Construction</b>	<b>141,100</b>	<b>136,800</b>	<b>-4,300</b>	<b>-3.0%</b>
	<b>Total Manufacturing</b>	<b>299,700</b>	<b>258,380</b>	<b>-41,320</b>	<b>-13.8%</b>
	Durable Goods Manufacturing	197,110	168,520	-28,590	-14.5%
321	Wood Product Manufacturing	3,390	3,100	-290	-8.6%
327	Nonmetallic Mineral Product Manufacturing	6,810	6,380	-430	-6.3%
331	Primary Metal Manufacturing	5,060	3,550	-1,510	-29.8%
332	Fabricated Metal Product Manufacturing	35,200	27,800	-7,400	-21.0%
333	Machinery Manufacturing	20,300	16,500	-3,800	-18.7%
334	Computer and Electronic Product Manufacturing	71,500	61,400	-10,100	-14.1%
3341	Computer and Peripheral Equipment Manufacturing	14,700	9,900	-4,800	-32.7%
3342	Communications Equipment Manufacturing	6,100	5,080	-1,020	-16.7%
3343 and 3344	Semiconductor and Other Electronic Component Manufacturing and Audio and Video Equipment Mfg.	22,510	19,390	-3,120	-13.9%
3345	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	27,800	26,660	-1,140	-4.1%
335	Electric Equipment, Appliance, and Component Manufacturing	11,400	9,000	-2,400	-21.1%
336	Transportation Equipment Manufacturing	14,500	14,640	140	1.0%
3364	Aerospace Product and Parts Manufacturing	11,760	12,300	540	4.6%
337	Furniture and Related Product Manufacturing	5,550	4,850	-700	-12.6%
339	Miscellaneous Manufacturing	23,400	21,300	-2,100	-9.0%
3391	Medical Equipment and Supplies Manufacturing	11,800	11,720	-80	-0.7%
	Nondurable Goods Manufacturing	102,590	89,860	-12,730	-12.4%

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
311	Food Manufacturing	22,700	22,830	130	0.6%
312	Beverage and Tobacco Product Manufacturing	2,610	2,400	-210	-8.0%
313	Textile Mills	6,420	4,660	-1,760	-27.4%
314	Textile Product Mills	2,690	2,100	-590	-21.9%
315	Apparel Manufacturing	3,670	1,700	-1,970	-53.7%
316	Leather and Allied Products Manufacturing	2,580	1,540	-1,040	-40.3%
322	Paper Manufacturing	12,370	8,400	-3,970	-32.1%
323	Printing and Related Support Activities	16,100	12,400	-3,700	-23.0%
324	Petroleum and Coal Products Manufacturing	1,250	1,000	-250	-20.0%
325	Chemical Manufacturing	17,100	19,230	2,130	12.5%
3254	Pharmaceutical and Medicine Manufacturing	7,920	11,450	3,530	44.6%
326	Plastics and Rubber Products Manufacturing	15,100	13,600	-1,500	-9.9%
	<b>Wholesale and Retail Trade</b>	<b>487,600</b>	<b>486,000</b>	<b>-1,600</b>	<b>-0.3%</b>
42	Wholesale Trade	137,100	141,000	3,900	2.8%
44-45	Retail Trade	350,500	345,000	-5,500	-1.6%
441	Motor Vehicle and Parts Dealers	37,100	35,930	-1,170	-3.2%
442	Furniture and Home Furnishings Stores	13,300	13,240	-60	-0.5%
443	Electronics and Appliance Stores	13,000	11,890	-1,110	-8.5%
444	Building Material and Garden Equipment and Supplies Dealers	28,100	30,020	1,920	6.8%
445	Food and Beverage Stores	88,500	87,560	-940	-1.1%
446	Health and Personal Care Stores	26,900	28,300	1,400	5.2%
447	Gasoline Stations	11,960	9,600	-2,360	-19.7%
448	Clothing and Clothing Accessories Stores	39,900	40,600	700	1.8%
451	Sporting Goods, Hobby, Book, and Music Stores	17,600	16,070	-1,530	-8.7%
452	General Merchandise Stores	41,900	42,620	720	1.7%

## Section 1

### Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
453	Miscellaneous Store Retailers	20,900	18,420	-2,480	-11.9%
454	Nonstore Retailers	11,340	10,750	-590	-5.2%
	<b>Transportation, Warehousing, and Utilities</b>	<b>82,900</b>	<b>87,630</b>	<b>4,730</b>	<b>5.7%</b>
221	Utilities	9,700	8,980	-720	-7.4%
	Transportation and Warehousing	73,200	78,650	5,450	7.4%
481	Air Transportation	7,800	8,140	340	4.4%
482, 483 and 486	Rail, Water, and Pipeline Transportation	3,980	4,030	50	1.3%
484	Truck Transportation	16,200	16,780	580	3.6%
485	Transit and Ground Passenger Transport	17,300	18,690	1,390	8.0%
487	Scenic and Sightseeing Transportation	1,020	1,370	350	34.3%
488	Support Activities for Transportation	6,330	7,130	800	12.6%
492	Couriers and Messengers	11,480	11,380	-100	-0.9%
493	Warehousing and Storage	9,090	11,130	2,040	22.4%
<b>51</b>	<b>Information</b>	<b>87,010</b>	<b>94,140</b>	<b>7,130</b>	<b>8.2%</b>
511	Publishing Industries, Except Internet	42,000	46,520	4,520	10.8%
5111	Newspaper, Periodical, Book, and Directory Publishers	21,000	19,020	-1,980	-9.4%
5112	Software Publishers	21,000	27,500	6,500	31.0%
512	Motion Picture and Sound Recording Industries	4,540	4,220	-320	-7.0%
515	Broadcasting (except Internet)	5,640	5,940	300	5.3%
517	Telecommunications	21,310	21,400	90	0.4%
516, 518 and 519	Internet and Other Information Services	13,520	16,060	2,540	18.8%
<b>52 and 53</b>	<b>Financial Activities</b>	<b>223,890</b>	<b>230,970</b>	<b>7,080</b>	<b>3.2%</b>
52	Finance and Insurance	179,590	185,510	5,920	3.3%
521 and 522	Credit Intermediation and Related Activities	64,200	65,650	1,450	2.3%

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
521 and 5221	Banking	50,620	51,420	800	1.6%
5222 and 5223	Credit Intermediation	13,580	14,230	650	4.8%
523	Securities, Commodities, and Other Financial Investment Activities	48,370	52,030	3,660	7.6%
524	Insurance Carriers and Related Activities	64,800	65,270	470	0.7%
5241	Insurance Carriers	43,100	42,570	-530	-1.2%
5242	Insurance Agencies, Brokerages, and Other Insurance Related Activities	21,700	22,700	1,000	4.6%
525	Funds, Trusts, and Other Financial Vehicles	2,220	2,560	340	15.3%
53	Real Estate, Rental, and Leasing	44,300	45,460	1,160	2.6%
531	Real Estate	31,600	32,510	910	2.9%
532	Rental and Leasing Services	12,220	12,400	180	1.5%
533	Lessors of Nonfinancial Intangible Assets	480	550	70	14.6%
<b>54, 55 and 56</b>	<b>Professional, Scientific, and Business Services</b>	<b>471,680</b>	<b>557,080</b>	<b>85,400</b>	<b>18.1%</b>
541	Professional and Technical Services	239,410	301,270	61,860	25.8%
5411	Legal Services	30,900	33,440	2,540	8.2%
5412	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	20,600	23,560	2,960	14.4%
5413	Architectural, Engineering, and Related Services	40,100	47,000	6,900	17.2%
5414	Specialized Design Services	3,530	3,950	420	11.9%
5415	Computer Systems Design and Related Services	47,900	65,500	17,600	36.7%
5416	Management, Scientific, and Technical Consulting Services	34,400	53,500	19,100	55.5%
5417	Scientific Research and Development Services	39,700	49,070	9,370	23.6%
5418	Advertising and Related Services	11,510	12,300	790	6.9%
5419	Other Professional, Scientific, and Technical Services	10,770	12,950	2,180	20.2%

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
551	Management of Companies and Enterprises	62,500	64,500	2,000	3.2%
56	Administrative and Support Services and Waste Management and Remediation Services	169,770	191,310	21,540	12.7%
561	Administrative and Support Services	160,030	179,400	19,370	12.1%
5611	Office Administrative Services	8,690	10,120	1,430	16.5%
5613	Employment Services	63,900	71,160	7,260	11.4%
5614	Business Support Services	9,320	10,490	1,170	12.6%
5615	Travel Arrangement and Reservation Services	6,660	6,600	-60	-0.9%
5616	Investigation and Security Services	16,920	19,000	2,080	12.3%
5617	Services to Buildings and Dwellings	50,000	57,080	7,080	14.2%
5619 and 5612	Other Support Services, Includes Facilities Support Services	4,540	4,950	410	9.0%
562	Waste Management and Remediation Service	9,740	11,910	2,170	22.3%
<b>611</b>	<b>Educational Services, Private</b>	<b>155,370</b>	<b>173,700</b>	<b>18,330</b>	<b>11.8%</b>
6111	Elementary and Secondary Schools	30,300	34,000	3,700	12.2%
6112 and 6113	Colleges and Universities, Including Junior Colleges	108,700	119,000	10,300	9.5%
6114, 6115, 6116 and 6117	Other Post-Secondary Schools and Instruction, Includes Business and Computer Training, Tech/Trade Schools and Education Supt. Services	16,370	20,700	4,330	26.5%
<b>62</b>	<b>Health Care and Social Assistance</b>	<b>450,320</b>	<b>534,010</b>	<b>83,690</b>	<b>18.6%</b>
621, 622, and 623	Health Care	387,710	452,340	64,630	16.7%
621	Ambulatory Health Care Services	130,300	154,780	24,480	18.8%
6211, 6212 and 6213	Offices of Health Care Practitioners	80,990	91,500	10,510	13.0%
6216	Home Health Care Services	21,000	30,000	9,000	42.9%

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
6214, 6215 and 6219	Outpatient, Laboratory and Other Ambulatory Care Services	28,310	33,280	4,970	17.6%
622	Hospitals, Private	165,200	188,730	23,530	14.2%
623	Nursing and Residential Care Facilities	92,210	108,830	16,620	18.0%
6231	Nursing Care Facilities	56,620	61,920	5,300	9.4%
6232, 6233 and 6239	Residential Care Facilities	35,590	46,910	11,320	31.8%
624	Social Assistance	62,610	81,670	19,060	30.4%
6241	Individual and Family Services	27,500	40,370	12,870	46.8%
6242, 6243	Individual, Family, Community and Vocational Rehabilitation Services	12,910	14,300	1,390	10.8%
6244	Child Day Care Services	22,200	27,000	4,800	21.6%
<b>71-72</b>	<b>Leisure and Hospitality</b>	<b>296,700</b>	<b>323,860</b>	<b>27,160</b>	<b>9.2%</b>
71	Arts, Entertainment, and Recreation	47,100	54,210	7,110	15.1%
711	Performing Arts, Spectator Sports, and Related Industries	8,800	10,020	1,220	13.9%
712	Museums, Historical Sites, and Similar Institutions	5,200	5,670	470	9.0%
713	Amusement, Gambling, and Recreation Industries	33,100	38,520	5,420	16.4%
72	Accommodation and Food Services	249,600	269,650	20,050	8.0%
721	Accommodation	33,300	36,900	3,600	10.8%
722	Food Services and Drinking Places	216,300	232,750	16,450	7.6%
<b>81</b>	<b>Other Services, Except Public Administration</b>	<b>118,910</b>	<b>127,520</b>	<b>8,610</b>	<b>7.2%</b>
811	Repair and Maintenance	26,300	27,810	1,510	5.7%
8111	Automotive Repair and Maintenance	18,800	20,760	1,960	10.4%
8112	Electronic and Precision Equipment Repair and Maintenance	3,240	2,870	-370	-11.4%
8113	Commercial and Industrial Machinery and Equipment (except Auto. and Electronic) Repair and Maintenance	2,540	2,580	40	1.6%

## Section 1 Massachusetts Employment by Industry, 2006 and Projected 2016 (continued)

2002 NAICS Code	NAICS Title	2006	2016	Net Change	Percent Change
8114	Personal and Household Goods Repair and Maintenance	1,720	1,600	-120	-7.0%
812	Personal and Laundry Services	36,300	38,850	2,550	7.0%
8121	Personal Care Services	18,530	21,100	2,570	13.9%
8122	Death Care Services	2,450	2,680	230	9.4%
8123	Drycleaning and Laundry Services	8,840	7,910	-930	-10.5%
8129	Other Personal Services	6,480	7,160	680	10.5%
813	Membership Associations and Organizations	56,310	60,860	4,550	8.1%
8131	Religious Organizations	18,890	20,200	1,310	6.9%
8132	Grantmaking and Giving Services	3,870	4,300	430	11.1%
8133	Social Advocacy Organizations	7,640	8,350	710	9.3%
8134	Civic and Social Organizations	18,320	20,010	1,690	9.2%
8139	Business, Professional, Labor, Political, and Similar Organizations	7,590	8,000	410	5.4%
	<b>Government</b>	<b>429,000</b>	<b>437,600</b>	<b>8,600</b>	<b>2.0%</b>
91	Federal Government, Total	49,100	44,960	-4,140	-8.4%
	Postal Service	21,300	19,510	-1,790	-8.4%
	Federal Government, Excluding Postal Service	27,800	25,450	-2,350	-8.5%
92	State Government, Total	114,200	117,580	3,380	3.0%
	State Education	42,600	46,630	4,030	9.5%
	State Hospitals	6,600	6,290	-310	-4.7%
	State Government, Excluding Education and Hospitals	65,000	64,660	-340	-0.5%
93	Local Government, Total	265,700	275,060	9,360	3.5%
	Local Education	164,500	171,340	6,840	4.2%
	Local Hospitals	1,820	1,790	-30	-1.6%
	Local Government Excluding Education and Hospitals	99,380	101,930	2,550	2.6%

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
00-0000	<b>Total, All Occupations</b>	<b>3,454,420</b>	<b>100.0%</b>	<b>3,671,070</b>	<b>100.0%</b>	<b>216,650</b>	<b>6.3%</b>	<b>279,650</b>	<b>768,330</b>	<b>984,980</b>	<b>1,047,980</b>	<b>\$23.59</b>	<b>\$49,070</b>	
11-0000	<b>Management Occupations</b>	<b>223,810</b>	<b>6.5%</b>	<b>230,800</b>	<b>6.3%</b>	<b>6,990</b>	<b>3.1%</b>	<b>10,040</b>	<b>49,470</b>	<b>56,460</b>	<b>59,510</b>	<b>\$52.42</b>	<b>\$109,030</b>	
11-1021	General and Operations Managers	43,960	1.3%	42,210	1.2%	-1,750	-4.0%	0	10,600	8,850	10,600	\$54.44	\$113,230	4
11-2011	Advertising and Promotions Managers	1,280	0.0%	1,290	0.0%	10	0.4%	10	290	300	290	\$53.95	\$112,220	4
11-2021	Marketing Managers	6,810	0.2%	7,500	0.2%	690	10.1%	690	1,510	2,200	2,200	\$57.87	\$120,360	4
11-2022	Sales Managers	10,030	0.3%	10,530	0.3%	500	4.9%	490	2,230	2,730	2,720	\$57.95	\$120,540	4
11-2031	Public Relations Managers	2,050	0.1%	2,220	0.1%	170	8.5%	180	480	650	650	\$54.01	\$112,340	4
11-3000	<b>Operations Specialties Managers</b>	<b>51,440</b>	<b>1.5%</b>	<b>54,250</b>	<b>1.5%</b>	<b>2,810</b>	<b>5.5%</b>	<b>3,030</b>	<b>10,190</b>	<b>13,000</b>	<b>13,220</b>			
11-3011	Administrative Services Managers	8,760	0.3%	9,170	0.3%	410	4.6%	400	2,320	2,730	2,720	\$39.38	\$81,910	4
11-3021	Computer and Information Systems Managers	10,610	0.3%	11,550	0.3%	940	8.9%	940	1,710	2,650	2,660	\$59.53	\$123,820	4
11-3031	Financial Managers	19,810	0.6%	20,980	0.6%	1,170	5.9%	1,170	2,880	4,050	4,050	\$52.79	\$109,810	4
11-3041	Compensation and Benefits Managers	2,040	0.1%	2,230	0.1%	190	9.3%	190	380	570	570	\$50.58	\$105,200	4
11-3042	Training and Development Managers	1,150	0.0%	1,260	0.0%	110	9.8%	110	220	330	330	\$52.53	\$109,250	4
11-3049	Human Resources Managers, All Other	1,500	0.0%	1,620	0.0%	120	7.9%	120	280	400	400	\$55.27	\$114,970	4
11-3051	Industrial Production Managers	3,530	0.1%	3,330	0.1%	-200	-5.5%	0	1,220	1,020	1,220	\$45.84	\$95,350	8
11-3061	Purchasing Managers	2,150	0.1%	2,130	0.1%	-20	-0.9%	0	620	600	620	\$47.12	\$98,010	4
11-3071	Transportation, Storage, and Distribution Mgrs	1,890	0.1%	1,990	0.1%	100	4.9%	90	560	660	660	\$38.24	\$79,550	8
11-9000	<b>Other Management Occupations</b>	<b>75,390</b>	<b>2.2%</b>	<b>81,010</b>	<b>2.2%</b>	<b>5,620</b>	<b>7.5%</b>	<b>5,640</b>	<b>15,760</b>	<b>21,380</b>	<b>21,400</b>			
11-9021	Construction Managers	9,420	0.3%	10,020	0.3%	600	6.5%	610	1,460	2,060	2,070	\$48.90	\$101,700	5
11-9031	Education Administrators, Preschool and Child Care Center/Program	2,310	0.1%	2,630	0.1%	320	14.0%	320	640	960	970	\$24.69	\$51,360	4
11-9033	Education Administrators, Postsecondary	6,010	0.2%	6,600	0.2%	590	9.8%	590	1,680	2,270	2,260	\$48.44	\$100,760	4
11-9039	Education Administrators, All Other	1,710	0.0%	1,880	0.1%	170	10.2%	170	480	650	650	\$37.51	\$78,020	4
11-9041	Engineering Managers	6,070	0.2%	6,270	0.2%	200	3.3%	200	1,230	1,430	1,430	\$62.34	\$129,670	4
11-9051	Food Service Managers	9,860	0.3%	10,250	0.3%	390	3.9%	390	2,330	2,720	2,720	\$25.21	\$52,440	8
11-9061	Funeral Directors	500	0.0%	550	0.0%	50	10.3%	50	120	170	170	\$35.95	\$74,780	6
11-9081	Lodging Managers	1,110	0.0%	1,260	0.0%	150	13.3%	150	240	390	390	\$26.63	\$55,400	8
11-9111	Medical and Health Services Managers	8,210	0.2%	9,320	0.3%	1,110	13.5%	1,110	1,530	2,640	2,640	\$47.14	\$98,050	4

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
11-9121	Natural Sciences Managers	1,300	0.0%	1,600	0.0%	300	23.4%	300	290	590	590	\$64.17	\$133,460	4
11-9131	Postmasters and Mail Superintendents	370	0.0%	340	0.0%	-30	-7.6%	0	90	60	90	\$32.01	\$66,570	8
11-9141	Property, Real Estate and Comm. Assoc. Managers	6,760	0.2%	6,990	0.2%	230	3.3%	220	940	1,170	1,160	\$31.87	\$66,290	5
11-9151	Social and Community Service Managers	4,740	0.1%	5,620	0.2%	880	18.5%	880	910	1,790	1,790	\$28.71	\$59,710	5
11-9199	Managers, All Other	11,260	0.3%	11,590	0.3%	330	3.0%	340	2,240	2,570	2,580	\$44.44	\$92,430	8
<b>13-0000</b>	<b>Business and Financial Operations Occupations</b>	<b>188,950</b>	<b>5.5%</b>	<b>209,010</b>	<b>5.7%</b>	<b>20,060</b>	<b>10.6%</b>	<b>21,330</b>	<b>32,310</b>	<b>52,370</b>	<b>53,640</b>	<b>\$34.36</b>	<b>\$71,470</b>	
<b>13-1000</b>	<b>Business Operations Specialists</b>	<b>107,460</b>	<b>3.1%</b>	<b>119,220</b>	<b>3.3%</b>	<b>11,760</b>	<b>10.9%</b>	<b>12,500</b>	<b>19,180</b>	<b>30,940</b>	<b>31,680</b>			
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	920	0.0%	970	0.0%	50	5.7%	50	250	300	300	\$30.79	\$64,040	4
13-1022	Wholesale and Retail Buyers, Exc. Farm Products	5,680	0.2%	5,300	0.1%	-380	-6.6%	0	1,270	890	1,270	\$27.69	\$57,590	9
13-1023	Purchasing Agents, Exc. Wholesale, Retail and Farm Products	7,450	0.2%	7,110	0.2%	-340	-4.6%	0	1,590	1,250	1,590	\$30.23	\$62,880	9
13-1031	Claims Adjusters, Examiners, and Investigators	8,280	0.2%	8,400	0.2%	120	1.5%	130	2,110	2,230	2,230	\$27.69	\$57,590	9
13-1032	Insurance Appraisers, Auto Damage	870	0.0%	910	0.0%	40	5.4%	50	220	260	270	\$27.36	\$56,900	7
13-1041	Compliance Officers, Exc. Const/Health and Safety/Transport	5,810	0.2%	5,860	0.2%	50	1.0%	60	680	730	740	\$29.09	\$60,500	9
13-1051	Cost Estimators	5,970	0.2%	6,350	0.2%	380	6.4%	380	1,220	1,600	1,600	\$34.94	\$72,670	5
13-1061	Emergency Management Specialists	180	0.0%	190	0.0%	10	6.1%	10	20	30	30	\$31.20	\$64,890	8
13-1071	Employment, Recruitment, and Placement Specialists	6,360	0.2%	7,230	0.2%	870	13.8%	880	1,370	2,240	2,240	\$29.11	\$60,560	5
13-1072	Compensation, Benefits, and Job Analysis Specialists	4,280	0.1%	4,810	0.1%	530	12.5%	530	920	1,450	1,460	\$29.69	\$61,760	5
13-1073	Training and Development Specialists	5,810	0.2%	6,540	0.2%	730	12.6%	730	1,250	1,980	1,980	\$29.86	\$62,110	4
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	3,790	0.1%	4,340	0.1%	550	14.7%	560	810	1,360	1,370	\$30.67	\$63,800	5
13-1081	Logisticians	2,250	0.1%	2,630	0.1%	380	16.6%	370	340	720	710	\$34.55	\$71,870	5
13-1111	Management Analysts	25,610	0.7%	30,560	0.8%	4,950	19.3%	4,950	4,370	9,320	9,320	\$45.52	\$94,680	4

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
13-1121	Meeting and Convention Planners	1,690	0.0%	1,870	0.1%	180	10.6%	180	340	520	520	\$25.27	\$52,570	5
13-1199	Business Operations Specialists, All Other	22,270	0.6%	25,890	0.7%	3,620	16.3%	3,620	2,380	6,000	6,010	\$31.66	\$65,860	5
<b>13-2000</b>	<b>Financial Specialists</b>	<b>81,490</b>	<b>2.4%</b>	<b>89,790</b>	<b>2.5%</b>	<b>8,300</b>	<b>10.2%</b>	<b>8,830</b>	<b>13,130</b>	<b>21,430</b>	<b>21,960</b>			
13-2011	Accountants and Auditors	35,460	1.0%	39,790	1.1%	4,330	12.2%	4,330	6,240	10,570	10,560	\$31.51	\$65,540	5
13-2021	Appraisers and Assessors of Real Estate	3,030	0.1%	3,240	0.1%	210	6.8%	210	610	820	810	\$31.64	\$65,820	5
13-2031	Budget Analysts	1,850	0.1%	2,010	0.1%	160	8.9%	160	430	590	590	\$34.32	\$71,380	5
13-2041	Credit Analysts	1,860	0.1%	1,730	0.0%	-130	-6.9%	0	710	580	710	\$30.19	\$62,790	5
13-2051	Financial Analysts	11,010	0.3%	13,330	0.4%	2,320	21.1%	2,320	630	2,950	2,950	\$42.86	\$89,150	5
13-2052	Personal Financial Advisors	6,360	0.2%	7,450	0.2%	1,090	17.3%	1,100	570	1,660	1,670	\$55.85	\$116,170	5
13-2053	Insurance Underwriters	2,810	0.1%	2,790	0.1%	-20	-0.7%	0	750	730	750	\$33.58	\$69,850	5
13-2061	Financial Examiners	1,400	0.0%	1,430	0.0%	30	2.2%	30	250	280	280	\$37.52	\$78,040	5
13-2071	Loan Counselors	1,330	0.0%	1,300	0.0%	-30	-2.5%	0	140	110	140	\$29.84	\$62,070	5
13-2072	Loan Officers	8,200	0.2%	8,700	0.2%	500	6.1%	500	880	1,380	1,380	\$38.78	\$80,660	5
13-2081	Tax Examiners, Collectors, and Revenue Agents	2,440	0.1%	2,420	0.1%	-20	-0.9%	0	620	600	620	\$29.25	\$60,840	5
13-2082	Tax Preparers	2,610	0.1%	2,280	0.1%	-330	-12.7%	0	460	130	460	\$28.29	\$58,850	10
13-2099	Financial Specialists, All Other	3,150	0.1%	3,340	0.1%	190	5.9%	190	840	1,030	1,030	\$32.41	\$67,410	5
<b>15-0000</b>	<b>Computer and Mathematical Occupations</b>	<b>120,220</b>	<b>3.5%</b>	<b>145,710</b>	<b>4.0%</b>	<b>25,490</b>	<b>21.2%</b>	<b>25,790</b>	<b>25,010</b>	<b>50,500</b>	<b>50,800</b>	<b>\$40.22</b>	<b>\$83,660</b>	
<b>15-1000</b>	<b>Computer Specialists</b>	<b>115,690</b>	<b>3.4%</b>	<b>140,450</b>	<b>3.8%</b>	<b>24,760</b>	<b>21.4%</b>	<b>25,060</b>	<b>23,830</b>	<b>48,590</b>	<b>48,890</b>			
15-1011	Computer and Information Scientists, Research	1,450	0.0%	1,700	0.0%	250	16.9%	250	390	640	630	\$59.15	\$123,030	2
15-1021	Computer Programmers	13,100	0.4%	12,810	0.3%	-290	-2.3%	0	2,740	2,450	2,740	\$37.63	\$78,270	5
15-1031	Computer Software Engineers, Applications	23,660	0.7%	31,920	0.9%	8,260	34.9%	8,260	3,450	11,710	11,710	\$45.95	\$95,570	5
15-1032	Computer Software Engineers, Systems Software	21,330	0.6%	26,490	0.7%	5,160	24.2%	5,160	3,110	8,270	8,270	\$46.43	\$96,580	5
15-1041	Computer Support Specialists	17,360	0.5%	18,420	0.5%	1,060	6.1%	1,060	5,360	6,420	6,420	\$27.35	\$56,890	6
15-1051	Computer Systems Analysts	14,810	0.4%	18,370	0.5%	3,560	24.0%	3,550	3,930	7,490	7,480	\$40.59	\$84,420	5
15-1061	Database Administrators	4,240	0.1%	5,140	0.1%	900	21.2%	900	450	1,350	1,350	\$35.49	\$73,830	5

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
15-1071	Network and Computer Systems Administrators	9,390	0.3%	11,340	0.3%	1,950	20.9%	1,960	2,140	4,090	4,100	\$36.08	\$75,040	5
15-1081	Network Systems and Data Communications Analysts	7,670	0.2%	11,470	0.3%	3,800	49.5%	3,800	1,560	5,360	5,360	\$39.00	\$81,110	5
15-1099	Computer Specialists, All Other	2,670	0.1%	2,800	0.1%	130	4.9%	130	710	840	840	\$36.96	\$76,870	6
<b>15-2000</b>	<b>Mathematical Scientists</b>	<b>4,530</b>	<b>0.1%</b>	<b>5,260</b>	<b>0.1%</b>	<b>730</b>	<b>16.2%</b>	<b>730</b>	<b>1,180</b>	<b>1,910</b>	<b>1,910</b>			
15-2011	Actuaries	1,080	0.0%	1,320	0.0%	240	22.3%	240	390	630	630	\$47.73	\$99,270	4
15-2031	Operations Research Analysts	2,480	0.1%	2,840	0.1%	360	14.1%	350	500	860	850	\$37.62	\$78,260	3
15-2041	Statisticians	790	0.0%	910	0.0%	120	14.6%	120	250	370	360	\$37.93	\$78,890	3
<b>17-0000</b>	<b>Architecture and Engineering Occupations</b>	<b>77,550</b>	<b>2.2%</b>	<b>82,650</b>	<b>2.3%</b>	<b>5,100</b>	<b>6.6%</b>	<b>5,580</b>	<b>17,830</b>	<b>22,930</b>	<b>23,410</b>	<b>\$36.80</b>	<b>\$76,540</b>	
<b>17-1000</b>	<b>Architects, Surveyors, and Cartographers</b>	<b>7,150</b>	<b>0.2%</b>	<b>8,030</b>	<b>0.2%</b>	<b>880</b>	<b>12.4%</b>	<b>890</b>	<b>1,530</b>	<b>2,410</b>	<b>2,420</b>			
17-1011	Architects, Except Landscape and Naval	4,310	0.1%	4,820	0.1%	510	11.8%	510	810	1,320	1,320	\$40.60	\$84,450	5
17-1012	Landscape Architects	1,330	0.0%	1,470	0.0%	140	10.9%	150	250	390	400	\$33.78	\$70,270	5
17-1021	Cartographers and Photogrammetrists	210	0.0%	250	0.0%	40	19.8%	40	70	110	110	\$25.78	\$53,630	5
17-1022	Surveyors	1,300	0.0%	1,490	0.0%	190	14.7%	190	400	590	590	\$25.57	\$53,190	5
<b>17-2000</b>	<b>Engineers</b>	<b>48,770</b>	<b>1.4%</b>	<b>52,770</b>	<b>1.4%</b>	<b>4,000</b>	<b>8.2%</b>	<b>4,210</b>	<b>11,510</b>	<b>15,510</b>	<b>15,720</b>			
17-2041	Chemical Engineers	1,550	0.0%	1,820	0.0%	270	17.1%	270	390	660	660	\$42.32	\$88,020	5
17-2051	Civil Engineers	7,490	0.2%	8,230	0.2%	740	9.9%	740	1,970	2,710	2,710	\$38.25	\$79,560	5
17-2061	Computer Hardware Engineers	4,660	0.1%	4,950	0.1%	290	6.3%	300	1,430	1,720	1,730	\$48.58	\$101,040	5
17-2071	Electrical Engineers	6,300	0.2%	6,440	0.2%	140	2.1%	140	1,460	1,600	1,600	\$45.62	\$94,880	5
17-2072	Electronics Engineers, Except Computer	4,750	0.1%	4,690	0.1%	-60	-1.2%	0	1,100	1,040	1,100	\$43.21	\$89,870	5
17-2081	Environmental Engineers	2,100	0.1%	2,530	0.1%	430	20.7%	440	620	1,050	1,050	\$37.60	\$78,210	5
17-2111	Health and Safety Engineers, Exc. Mining Safety Engineers and Inspectors	1,030	0.0%	1,120	0.0%	90	8.8%	90	250	340	340	\$40.47	\$84,170	5
17-2112	Industrial Engineers	6,240	0.2%	7,530	0.2%	1,290	20.6%	1,290	1,500	2,790	2,790	\$39.14	\$81,410	5
17-2131	Materials Engineers	670	0.0%	680	0.0%	10	1.5%	10	160	170	170	\$41.37	\$86,040	5
17-2141	Mechanical Engineers	6,840	0.2%	6,700	0.2%	-140	-2.2%	0	1,480	1,340	1,480	\$40.63	\$84,520	5
17-2199	Engineers, All Other	4,380	0.1%	4,770	0.1%	390	8.9%	390	520	910	910	\$43.39	\$90,260	5

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
<b>17-3000</b>	<b>Drafters, Engineering and Mapping Technicians</b>	<b>21,640</b>	<b>0.6%</b>	<b>21,850</b>	<b>0.6%</b>	<b>210</b>	<b>1.0%</b>	<b>490</b>	<b>4,780</b>	<b>4,990</b>	<b>5,270</b>			
17-3011	Architectural and Civil Drafters	2,820	0.1%	2,800	0.1%	-20	-0.7%	0	810	790	810	\$23.95	\$49,810	7
17-3012	Electrical and Electronics Drafters	1,120	0.0%	1,100	0.0%	-20	-2.0%	0	320	300	320	\$28.99	\$60,300	7
17-3013	Mechanical Drafters	1,770	0.1%	1,760	0.0%	-10	-0.3%	0	510	500	510	\$30.12	\$62,650	7
17-3022	Civil Engineering Technicians	780	0.0%	840	0.0%	60	8.6%	70	150	210	220	\$23.50	\$48,890	6
17-3023	Electrical and Electronic Engineering Technicians	7,060	0.2%	6,940	0.2%	-120	-1.7%	0	1,380	1,260	1,380	\$26.08	\$54,240	6
17-3024	Electro-Mechanical Technicians	1,040	0.0%	980	0.0%	-60	-5.8%	0	200	140	200	\$21.85	\$45,440	6
17-3025	Environmental Engineering Technicians	560	0.0%	710	0.0%	150	26.9%	150	110	260	260	\$22.18	\$46,140	6
17-3026	Industrial Engineering Technicians	2,070	0.1%	2,210	0.1%	140	6.8%	140	400	540	540	\$25.81	\$53,690	6
17-3027	Mechanical Engineering Technicians	1,960	0.1%	1,910	0.1%	-50	-2.2%	0	380	330	380	\$24.80	\$51,580	6
17-3029	Engineering Technicians, Exc. Drafters, All Other	1,110	0.0%	1,100	0.0%	-10	-0.6%	0	220	210	220	\$27.46	\$57,120	6
17-3031	Surveying and Mapping Technicians	790	0.0%	890	0.0%	100	12.5%	100	150	250	250	\$20.49	\$42,620	10
<b>19-0000</b>	<b>Life, Physical and Social Science Occupations</b>	<b>52,810</b>	<b>1.5%</b>	<b>62,110</b>	<b>1.7%</b>	<b>9,300</b>	<b>17.6%</b>	<b>9,300</b>	<b>12,330</b>	<b>21,630</b>	<b>21,630</b>	<b>\$34.14</b>	<b>\$71,010</b>	
<b>19-1000</b>	<b>Life Scientists</b>	<b>13,180</b>	<b>0.4%</b>	<b>16,260</b>	<b>0.4%</b>	<b>3,080</b>	<b>23.3%</b>	<b>3,080</b>	<b>3,510</b>	<b>6,590</b>	<b>6,580</b>			
19-1012	Food Scientists and Technologists	310	0.0%	340	0.0%	30	11.7%	40	90	120	130	\$32.06	\$66,690	5
19-1021	Biochemists and Biophysicists	1,990	0.1%	2,610	0.1%	620	31.5%	630	400	1,020	1,030	\$43.03	\$89,490	2
19-1022	Microbiologists	1,190	0.0%	1,490	0.0%	300	25.5%	300	240	540	550	\$28.55	\$59,370	2
19-1029	Biological Scientists, All Other	780	0.0%	930	0.0%	150	19.3%	150	160	310	310	\$37.47	\$77,930	2
19-1031	Conservation Scientists	350	0.0%	350	0.0%	0	0.9%	0	100	100	110	\$31.16	\$64,810	5
19-1041	Epidemiologists	180	0.0%	190	0.0%	10	8.5%	20	60	70	70	\$32.27	\$67,120	3
19-1042	Medical Scientists, Except Epidemiologists	6,670	0.2%	8,240	0.2%	1,570	23.4%	1,560	2,070	3,640	3,630	\$43.46	\$90,400	2
19-1099	Life Scientists, All Other	120	0.0%	120	0.0%	0	3.4%	0	40	40	40	\$41.25	\$85,810	5
<b>19-2000</b>	<b>Physical Scientists</b>	<b>8,130</b>	<b>0.2%</b>	<b>9,600</b>	<b>0.3%</b>	<b>1,470</b>	<b>18.1%</b>	<b>1,480</b>	<b>2,060</b>	<b>3,530</b>	<b>3,540</b>			
19-2012	Physicists	560	0.0%	590	0.0%	30	4.6%	30	140	170	160	\$53.24	\$110,740	2
19-2021	Atmospheric and Space Scientists	600	0.0%	690	0.0%	90	15.4%	90	150	240	240	\$36.86	\$76,670	5

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
19-2031	Chemists	3,190	0.1%	3,810	0.1%	620	19.7%	630	840	1,460	1,470	\$38.75	\$80,600	5
19-2032	Materials Scientists	300	0.0%	360	0.0%	60	17.5%	50	80	140	130	\$45.26	\$94,150	5
19-2041	Environmental Scientists and Specialists, Incl. Health	2,280	0.1%	2,810	0.1%	530	23.1%	530	590	1,120	1,120	\$40.12	\$83,440	3
19-2043	Hydrologists	130	0.0%	160	0.0%	30	18.9%	30	30	60	60	\$39.85	\$82,880	3
19-2099	Physical Scientists, All Other	600	0.0%	610	0.0%	10	1.5%	10	120	130	120	\$43.77	\$91,040	5
<b>19-3000</b>	<b>Social Scientists and Related Workers</b>	<b>20,430</b>	<b>0.6%</b>	<b>23,070</b>	<b>0.6%</b>	<b>2,640</b>	<b>12.9%</b>	<b>2,640</b>	<b>2,850</b>	<b>5,490</b>	<b>5,500</b>			
19-3011	Economists	920	0.0%	1,010	0.0%	90	9.2%	90	270	360	360	\$35.50	\$73,840	3
19-3022	Survey Researchers	580	0.0%	710	0.0%	130	22.3%	130	40	170	170	\$21.42	\$44,550	5
19-3031	Clinical, Counseling, and School Psychologists	6,440	0.2%	7,440	0.2%	1,000	15.4%	990	990	1,990	1,980	\$32.09	\$66,740	2
19-3039	Psychologists, All Other	370	0.0%	380	0.0%	10	1.6%	10	60	70	60	\$33.89	\$70,480	3
19-3051	Urban and Regional Planners	1,340	0.0%	1,430	0.0%	90	6.8%	90	400	490	490	\$32.53	\$67,660	3
19-3099	Social Scientists and Related Workers, All Other	1,150	0.0%	1,230	0.0%	80	6.2%	70	370	450	440	\$32.56	\$67,710	3
<b>19-4000</b>	<b>Life, Physical and Social Science Technicians</b>	<b>11,070</b>	<b>0.3%</b>	<b>13,180</b>	<b>0.4%</b>	<b>2,110</b>	<b>19.0%</b>	<b>2,110</b>	<b>3,910</b>	<b>6,020</b>	<b>6,020</b>			
19-4011	Agricultural and Food Science Technicians	240	0.0%	250	0.0%	10	3.3%	10	40	50	50	\$20.66	\$42,970	6
19-4021	Biological Technicians	5,800	0.2%	7,230	0.2%	1,430	24.6%	1,430	2,070	3,500	3,500	\$24.77	\$51,510	5
19-4031	Chemical Technicians	2,180	0.1%	2,480	0.1%	300	13.7%	300	730	1,030	1,030	\$22.33	\$46,450	6
19-4051	Nuclear Technicians	300	0.0%	330	0.0%	30	10.0%	30	110	140	140	\$28.62	\$59,540	6
19-4061	Social Science Research Assistants	550	0.0%	600	0.0%	50	10.1%	60	210	260	260	\$24.81	\$51,610	6
19-4091	Environ Science and Protection Techs, Inclu Health	1,000	0.0%	1,200	0.0%	200	19.5%	200	380	580	580	\$20.62	\$42,890	6
19-4099	Life, Physical and Social Science Technicians, All Other	840	0.0%	900	0.0%	60	7.4%	60	320	380	380	\$23.23	\$48,320	6
<b>21-0000</b>	<b>Community and Social Services Occupations</b>	<b>67,260</b>	<b>2.0%</b>	<b>79,070</b>	<b>2.2%</b>	<b>11,810</b>	<b>17.6%</b>	<b>11,820</b>	<b>11,570</b>	<b>23,380</b>	<b>23,390</b>	<b>\$20.32</b>	<b>\$42,270</b>	
21-1011	Substance Abuse and Behavioral Disorder Counselors	1,630	0.0%	2,000	0.1%	370	22.5%	370	320	690	690	\$19.83	\$41,250	5

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
21-1012	Educational, Vocational, and School Counselors	7,410	0.2%	8,010	0.2%	600	8.0%	590	1,470	2,070	2,060	\$25.07	\$52,140	3
21-1014	Mental Health Counselors	5,160	0.1%	6,360	0.2%	1,200	23.3%	1,200	1,020	2,220	2,220	\$18.07	\$37,590	3
21-1015	Rehabilitation Counselors	4,760	0.1%	5,630	0.2%	870	18.3%	870	940	1,810	1,810	\$17.78	\$36,970	3
21-1021	Child, Family, and School Social Workers	10,290	0.3%	11,140	0.3%	850	8.3%	860	2,170	3,020	3,030	\$23.51	\$48,900	5
21-1022	Medical and Public Health Social Workers	5,200	0.2%	5,990	0.2%	790	15.2%	790	1,100	1,890	1,890	\$23.67	\$49,230	5
21-1023	Mental Health and Substance Abuse Social Workers	4,010	0.1%	4,990	0.1%	980	24.7%	990	840	1,820	1,830	\$19.21	\$39,960	3
21-1029	Social Workers, All Other	870	0.0%	1,010	0.0%	140	16.6%	140	180	320	330	\$22.73	\$47,280	5
21-1091	Health Educators	1,910	0.1%	2,380	0.1%	470	24.6%	470	220	690	690	\$25.11	\$52,230	5
21-1092	Probation Officers and Correctional Treatment Specialists	2,340	0.1%	2,520	0.1%	180	7.8%	180	270	450	450	\$30.71	\$63,870	5
21-1093	Social and Human Service Assistants	16,080	0.5%	20,410	0.6%	4,330	27.0%	4,330	1,860	6,190	6,190	\$14.92	\$31,030	10
21-1099	Community and Social Service Specialists, All Other	2,010	0.1%	2,470	0.1%	460	22.5%	450	230	690	690	\$18.46	\$38,400	5
21-2011	Clergy	2,580	0.1%	2,790	0.1%	210	7.8%	200	350	560	550	\$23.82	\$49,540	3
<b>23-0000</b>	<b>Legal Occupations</b>	<b>29,290</b>	<b>0.8%</b>	<b>32,210</b>	<b>0.9%</b>	<b>2,920</b>	<b>10.0%</b>	<b>2,990</b>	<b>5,030</b>	<b>7,950</b>	<b>8,020</b>	<b>\$46.80</b>	<b>\$97,340</b>	
<b>23-1000</b>	<b>Lawyers, Judges, and Related Workers</b>	<b>18,990</b>	<b>0.6%</b>	<b>20,360</b>	<b>0.6%</b>	<b>1,370</b>	<b>7.2%</b>	<b>1,400</b>	<b>3,600</b>	<b>4,970</b>	<b>5,000</b>			
23-1011	Lawyers	17,580	0.5%	18,950	0.5%	1,370	7.8%	1,370	3,330	4,700	4,700	\$61.01	\$126,890	1
23-1021	Admin. Law Judges, Adjudicators and Hearing Officers	210	0.0%	200	0.0%	-10	-3.4%	0	40	30	40	\$38.76	\$80,620	4
23-1022	Arbitrators, Mediators, and Conciliators	300	0.0%	320	0.0%	20	9.1%	30	60	80	80	\$32.31	\$67,210	4
23-1023	Judges, Magistrate Judges, and Magistrates	900	0.0%	890	0.0%	-10	-1.9%	0	170	160	170	\$58.80	\$122,300	4
<b>23-2000</b>	<b>Legal Support Workers</b>	<b>10,310</b>	<b>0.3%</b>	<b>11,860</b>	<b>0.3%</b>	<b>1,550</b>	<b>15.0%</b>	<b>1,590</b>	<b>1,430</b>	<b>2,980</b>	<b>3,020</b>			
23-2011	Paralegals and Legal Assistants	8,140	0.2%	9,720	0.3%	1,580	19.5%	1,590	1,070	2,650	2,660	\$24.58	\$51,120	6
23-2091	Court Reporters	140	0.0%	140	0.0%	0	4.4%	10	20	20	30	\$30.22	\$62,860	7
23-2092	Law Clerks	590	0.0%	570	0.0%	-20	-4.6%	0	100	80	100	\$23.12	\$48,100	5
23-2093	Title Examiners, Abstractors, and Searchers	510	0.0%	490	0.0%	-20	-3.0%	0	80	60	80	\$24.67	\$51,310	10
23-2099	Legal Support Workers, All Other	930	0.0%	930	0.0%	0	0.0%	0	160	160	160	\$29.29	\$60,930	10

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
25-0000	Education, Training, and Library Occupations	233,220	6.8%	258,990	7.1%	25,770	11.0%	26,110	47,050	72,820	73,160	\$25.28	\$52,570	
25-1000	Postsecondary Teachers	50,370	1.5%	59,610	1.6%	9,240	18.3%	9,240	8,430	17,670	17,670			
25-1011	Business Teachers, Postsecondary	2,410	0.1%	2,840	0.1%	430	17.7%	430	400	830	830	*	\$101,530	3
25-1021	Computer Science Teachers, Postsecondary	1,410	0.0%	1,660	0.0%	250	17.8%	250	240	490	490	*	\$90,850	3
25-1022	Mathematical Science Teachers, Postsecondary	1,640	0.0%	1,920	0.1%	280	17.4%	290	270	550	560	*	\$77,510	3
25-1031	Architecture Teachers, Postsecondary	200	0.0%	230	0.0%	30	17.2%	30	30	60	70	*	\$79,360	2
25-1032	Engineering Teachers, Postsecondary	1,640	0.0%	1,920	0.1%	280	17.1%	280	270	550	550	*	\$102,810	2
25-1042	Biological Science Teachers, Postsecondary	2,270	0.1%	2,670	0.1%	400	17.5%	400	380	780	780	*	\$103,860	2
25-1051	Atmospheric, Earth, Marine and Space Sciences Teachers, Postsecondary	460	0.0%	560	0.0%	100	20.0%	90	80	180	170	*	\$95,660	2
25-1052	Chemistry Teachers, Postsecondary	800	0.0%	940	0.0%	140	17.6%	140	130	270	280	*	\$85,460	2
25-1053	Environmental Science Teachers, Postsecondary	240	0.0%	290	0.0%	50	17.7%	40	40	90	80	*	\$79,030	2
25-1054	Physics Teachers, Postsecondary	770	0.0%	900	0.0%	130	17.3%	130	130	260	260	*	\$93,610	2
25-1061	Anthropology and Archeology Teachers, Postsecondary	250	0.0%	290	0.0%	40	17.9%	40	40	80	90	*	\$76,480	2
25-1062	Area, Ethnic and Cultural Studies Teachers, Postsecondary	640	0.0%	750	0.0%	110	17.2%	110	110	220	220	*	\$75,020	2
25-1063	Economics Teachers, Postsecondary	800	0.0%	940	0.0%	140	17.5%	140	130	270	270	*	\$99,630	2
25-1064	Geography Teachers, Postsecondary	170	0.0%	200	0.0%	30	16.9%	30	30	60	60	*	\$72,580	2
25-1065	Political Science Teachers, Postsecondary	730	0.0%	860	0.0%	130	17.6%	130	120	250	250	*	\$90,520	2
25-1066	Psychology Teachers, Postsecondary	1,430	0.0%	1,680	0.0%	250	17.4%	250	240	490	490	*	\$76,400	2
25-1067	Sociology Teachers, Postsecondary	770	0.0%	900	0.0%	130	17.6%	140	130	260	260	*	\$66,760	2
25-1069	Social Sciences Teachers, Postsecondary, All Other	280	0.0%	330	0.0%	50	18.1%	50	50	100	100	*	\$92,740	2
25-1071	Health Specialties Teachers, Postsecondary	4,190	0.1%	4,980	0.1%	790	18.9%	790	700	1,490	1,490	*	\$112,410	3
25-1072	Nursing Instructors and Teachers, Postsecondary	1,130	0.0%	1,330	0.0%	200	17.7%	200	190	390	390	*	\$66,830	2
25-1081	Education Teachers, Postsecondary	1,660	0.0%	1,960	0.1%	300	18.0%	300	280	580	580	*	\$63,590	2

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	300	0.0%	350	0.0%	50	17.4%	50	50	100	100	*	\$59,200	2
25-1112	Law Teachers, Postsecondary	820	0.0%	970	0.0%	150	17.4%	140	140	290	280	*	\$90,040	1
25-1113	Social Work Teachers, Postsecondary	450	0.0%	530	0.0%	80	17.4%	80	80	160	150	*	\$61,940	2
25-1121	Art, Drama and Music Teachers, Postsecondary	5,240	0.2%	6,340	0.2%	1,100	20.9%	1,090	880	1,980	1,970	*	\$72,210	3
25-1122	Communications Teachers, Postsecondary	790	0.0%	930	0.0%	140	17.6%	140	130	270	270	*	\$64,740	2
25-1123	English Language and Literature Teachers, Postsecondary	2,790	0.1%	3,310	0.1%	520	18.4%	510	470	990	980	*	\$65,940	3
25-1124	Foreign Language and Literature Teachers, Postsecondary	1,230	0.0%	1,450	0.0%	220	18.2%	220	210	430	430	*	\$76,330	3
25-1125	History Teachers, Postsecondary	1,070	0.0%	1,260	0.0%	190	17.6%	190	180	370	370	*	\$78,060	2
25-1126	Philosophy and Religion Teachers, Postsecondary	930	0.0%	1,090	0.0%	160	17.4%	160	160	320	320	*	\$76,410	2
25-1191	Graduate Teaching Assistants	3,000	0.1%	3,530	0.1%	530	17.6%	530	500	1,030	1,030	*	\$43,240	5
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	420	0.0%	500	0.0%	80	19.1%	80	70	150	150	*	\$59,410	3
25-1194	Vocational Education Teachers, Postsecondary	1,990	0.1%	2,460	0.1%	470	23.7%	470	330	800	800	\$25.57	\$53,190	4
<b>25-2000</b>	<b>Primary, Secondary and Spec. Ed. Teachers</b>	<b>114,770</b>	<b>3.3%</b>	<b>125,720</b>	<b>3.4%</b>	<b>10,950</b>	<b>9.5%</b>	<b>11,180</b>	<b>26,420</b>	<b>37,370</b>	<b>37,600</b>			
25-2011	Preschool Teachers, Exc. Special Education	14,410	0.4%	17,080	0.5%	2,670	18.5%	2,670	2,380	5,050	5,050	\$14.19	\$29,510	7
25-2012	Kindergarten Teachers, Exc. Special Education	4,000	0.1%	4,510	0.1%	510	12.9%	520	660	1,170	1,180	*	\$50,140	5
25-2021	Elementary School Teachers, Exc. Special Education	33,910	1.0%	37,580	1.0%	3,670	10.8%	3,660	7,400	11,070	11,070	*	\$56,620	5
25-2022	Middle School Teachers, Exc. Spec. and Voc. Ed.	19,350	0.6%	21,030	0.6%	1,680	8.7%	1,670	4,230	5,910	5,900	*	\$55,330	5
25-2031	Secondary School Teachers, Exc. Spec. and Voc. Ed.	26,150	0.8%	27,010	0.7%	860	3.3%	860	7,790	8,650	8,640	*	\$56,790	5
25-2041	Spec. Ed. Teachers, Preschool, Kindergarten and Elementary School	7,090	0.2%	8,250	0.2%	1,160	16.4%	1,160	1,580	2,740	2,740	*	\$52,910	5

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
25-2042	Special Education Teachers, Middle School	3,200	0.1%	3,630	0.1%	430	13.4%	430	710	1,140	1,140	*	\$55,590	5
25-2043	Special Education Teachers, Secondary School	3,520	0.1%	3,740	0.1%	220	6.2%	220	780	1,000	1,000	*	\$56,450	5
<b>25-3000</b>	<b>Other Teachers and Instructors</b>	<b>18,120</b>	<b>0.5%</b>	<b>20,600</b>	<b>0.6%</b>	<b>2,480</b>	<b>13.7%</b>	<b>2,480</b>	<b>1,940</b>	<b>4,420</b>	<b>4,420</b>			
25-3011	Adult Literacy, Remedial Ed. and GED Teachers and Instructors	2,100	0.1%	2,340	0.1%	240	11.1%	230	230	470	460	\$21.51	\$44,730	5
25-3021	Self-Enrichment Education Teachers	8,450	0.2%	10,090	0.3%	1,640	19.5%	1,650	900	2,540	2,550	\$18.40	\$38,280	8
25-3099	Teachers and Instructors, All Other	7,570	0.2%	8,170	0.2%	600	8.0%	600	810	1,410	1,410	*	\$37,200	5
<b>25-4000</b>	<b>Librarians, Curators, and Archivists</b>	<b>10,860</b>	<b>0.3%</b>	<b>11,000</b>	<b>0.3%</b>	<b>140</b>	<b>1.2%</b>	<b>210</b>	<b>4,020</b>	<b>4,160</b>	<b>4,220</b>			
25-4011	Archivists	390	0.0%	410	0.0%	20	6.7%	30	170	190	190	\$24.75	\$51,480	3
25-4012	Curators	640	0.0%	680	0.0%	40	7.2%	50	280	320	320	\$27.48	\$57,160	3
25-4013	Museum Technicians and Conservators	430	0.0%	450	0.0%	20	6.6%	30	180	200	210	\$20.93	\$43,540	5
25-4021	Librarians	5,500	0.2%	5,430	0.1%	-70	-1.3%	0	1,490	1,420	1,490	\$28.18	\$58,620	3
25-4031	Library Technicians	3,910	0.1%	4,020	0.1%	110	2.7%	110	1,900	2,010	2,010	\$17.18	\$35,730	7
<b>25-9000</b>	<b>Other Education, Training and Library Occupations</b>	<b>39,110</b>	<b>1.1%</b>	<b>42,060</b>	<b>1.2%</b>	<b>2,950</b>	<b>7.6%</b>	<b>3,000</b>	<b>6,260</b>	<b>9,210</b>	<b>9,260</b>			
25-9031	Instructional Coordinators	3,120	0.1%	3,710	0.1%	590	18.8%	590	430	1,020	1,010	\$31.35	\$65,200	3
25-9041	Teacher Assistants	34,960	1.0%	37,310	1.0%	2,350	6.7%	2,360	5,690	8,040	8,050	*	\$24,500	11
25-9099	Education, Training and Library Workers, All Other	740	0.0%	790	0.0%	50	7.1%	50	100	150	150	\$21.53	\$44,780	5
<b>27-0000</b>	<b>Arts, Design, Entertainment., Sports and Media Occupations</b>	<b>67,240</b>	<b>2.0%</b>	<b>72,050</b>	<b>2.0%</b>	<b>4,810</b>	<b>7.2%</b>	<b>5,170</b>	<b>15,760</b>	<b>20,570</b>	<b>20,930</b>	<b>\$25.74</b>	<b>\$53,530</b>	
<b>27-1000</b>	<b>Art and Design Workers</b>	<b>22,070</b>	<b>0.6%</b>	<b>23,330</b>	<b>0.6%</b>	<b>1,260</b>	<b>5.7%</b>	<b>1,420</b>	<b>5,660</b>	<b>6,920</b>	<b>7,080</b>			
27-1011	Art Directors	2,580	0.1%	2,660	0.1%	80	2.8%	70	600	680	680	\$47.54	\$98,870	4
27-1012	Craft Artists	310	0.0%	290	0.0%	-20	-6.7%	0	70	50	70	\$19.45	\$40,450	9
27-1013	Fine Artists, Incl. Painters, Sculptors and Illustrators	940	0.0%	990	0.0%	50	5.3%	50	220	270	270	\$20.40	\$42,440	9
27-1014	Multi-Media Artists and Animators	2,140	0.1%	2,700	0.1%	560	25.7%	550	500	1,060	1,050	\$24.90	\$51,790	5
27-1019	Artists and Related Workers, All Other	480	0.0%	500	0.0%	20	3.3%	20	110	130	130	\$33.21	\$69,080	9
27-1021	Commercial and Industrial Designers	990	0.0%	980	0.0%	-10	-1.6%	0	260	250	260	\$34.30	\$71,350	5

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### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
27-1022	Fashion Designers	820	0.0%	880	0.0%	60	7.0%	60	220	280	280	\$25.49	\$53,010	6
27-1023	Floral Designers	2,590	0.1%	2,470	0.1%	-120	-4.7%	0	690	570	690	\$14.21	\$29,560	10
27-1024	Graphic Designers	6,450	0.2%	6,820	0.2%	370	5.7%	370	1,710	2,080	2,080	\$23.37	\$48,600	5
27-1025	Interior Designers	2,490	0.1%	2,760	0.1%	270	11.1%	280	660	930	940	\$29.45	\$61,260	6
27-1026	Merchandise Displayers and Window Trimmers	1,540	0.0%	1,550	0.0%	10	0.3%	10	410	420	410	\$16.42	\$34,160	10
27-1029	Designers, All Other	460	0.0%	470	0.0%	10	2.2%	10	120	130	130	\$32.17	\$66,910	5
<b>27-2000</b>	<b>Entertainers and Performers, Sports and Related Workers</b>	<b>15,370</b>	<b>0.4%</b>	<b>16,390</b>	<b>0.4%</b>	<b>1,020</b>	<b>6.6%</b>	<b>1,050</b>	<b>3,920</b>	<b>4,940</b>	<b>4,970</b>			
27-2012	Producers and Directors	2,090	0.1%	2,260	0.1%	170	8.4%	180	620	790	800	\$30.75	\$63,950	4
27-2032	Choreographers	100	0.0%	100	0.0%	0	-4.9%	0	60	60	60	\$18.56	\$38,600	8
27-2041	Music Directors and Composers	980	0.0%	1,040	0.0%	60	5.7%	60	200	260	260	\$31.17	\$64,840	4
<b>27-3000</b>	<b>Media and Communication Workers</b>	<b>23,670</b>	<b>0.7%</b>	<b>25,460</b>	<b>0.7%</b>	<b>1,790</b>	<b>7.6%</b>	<b>1,960</b>	<b>4,580</b>	<b>6,370</b>	<b>6,540</b>			
27-3031	Public Relations Specialists	9,430	0.3%	10,490	0.3%	1,060	11.2%	1,060	710	1,770	1,770	\$29.12	\$60,560	5
27-3042	Technical Writers	2,490	0.1%	2,850	0.1%	360	14.7%	370	750	1,110	1,110	\$35.01	\$72,820	5
27-3043	Writers and Authors	2,760	0.1%	2,950	0.1%	190	6.9%	190	500	690	690	\$29.40	\$61,150	5
27-3091	Interpreters and Translators	1,440	0.0%	1,730	0.0%	290	19.8%	290	340	630	630	\$20.14	\$41,890	9
27-3099	Media and Communication Workers, All Other	670	0.0%	710	0.0%	40	7.2%	50	160	200	210	\$26.52	\$55,170	9
<b>27-4000</b>	<b>Media and Communication Equip. Workers</b>	<b>6,130</b>	<b>0.2%</b>	<b>6,870</b>	<b>0.2%</b>	<b>740</b>	<b>12.1%</b>	<b>750</b>	<b>1,590</b>	<b>2,330</b>	<b>2,340</b>			
27-4011	Audio and Video Equipment Technicians	1,490	0.0%	1,790	0.0%	300	19.6%	290	490	790	780	\$19.35	\$40,240	9
27-4012	Broadcast Technicians	560	0.0%	610	0.0%	50	8.4%	50	180	230	230	\$17.86	\$37,150	6
27-4021	Photographers	2,670	0.1%	2,950	0.1%	280	10.8%	290	590	870	880	\$16.98	\$35,310	9
27-4031	Camera Operators, Television, Video and Motion Picture	490	0.0%	530	0.0%	40	6.5%	30	90	130	120	\$23.47	\$48,810	7
27-4032	Film and Video Editors	230	0.0%	230	0.0%	0	1.3%	0	40	40	50	\$35.10	\$73,010	5
<b>29-0000</b>	<b>Healthcare Practitioners and Technical Occupations</b>	<b>208,570</b>	<b>6.0%</b>	<b>242,370</b>	<b>6.6%</b>	<b>33,800</b>	<b>16.2%</b>	<b>33,890</b>	<b>38,390</b>	<b>72,190</b>	<b>72,290</b>	<b>\$35.27</b>	<b>\$73,360</b>	
<b>29-1000</b>	<b>Health Diagnosing and Treating Practitioners</b>	<b>135,300</b>	<b>3.9%</b>	<b>158,590</b>	<b>4.3%</b>	<b>23,290</b>	<b>17.2%</b>	<b>23,310</b>	<b>22,550</b>	<b>45,840</b>	<b>45,860</b>			

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
29-1011	Chiropractors	750	0.0%	830	0.0%	80	10.0%	80	80	160	160	\$41.57	\$86,460	1
29-1021	Dentists, General	2,830	0.1%	2,930	0.1%	100	3.5%	100	550	650	650	\$71.26	\$148,220	1
29-1022	Oral and Maxillofacial Surgeons	460	0.0%	470	0.0%	10	2.6%	10	90	100	100	\$86.80	\$180,550	1
29-1029	Dentists, All Other Specialists	160	0.0%	180	0.0%	20	15.5%	20	30	50	50	\$54.23	\$112,810	1
29-1031	Dietitians and Nutritionists	2,060	0.1%	2,220	0.1%	160	8.0%	170	520	680	690	\$26.38	\$54,870	5
29-1041	Optometrists	550	0.0%	580	0.0%	30	5.6%	30	100	130	130	\$43.98	\$91,480	1
29-1051	Pharmacists	5,990	0.2%	7,110	0.2%	1,120	18.7%	1,120	1,040	2,160	2,160	\$42.75	\$88,920	1
29-1062	Family and General Practitioners	1,850	0.1%	1,920	0.1%	70	4.0%	70	330	400	410	\$84.45	\$175,650	1
29-1063	Internists, General	2,220	0.1%	2,360	0.1%	140	6.1%	140	400	540	540	\$79.31	\$164,960	1
29-1064	Obstetricians and Gynecologists	610	0.0%	670	0.0%	60	11.0%	70	110	170	180	\$88.80	\$184,710	1
29-1065	Pediatricians, General	1,950	0.1%	2,010	0.1%	60	3.2%	60	350	410	410	\$70.82	\$147,310	1
29-1066	Psychiatrists	1,220	0.0%	1,280	0.0%	60	5.3%	70	220	280	290	\$81.37	\$169,260	1
29-1067	Surgeons	1,580	0.0%	1,630	0.0%	50	3.7%	60	280	330	340	\$99.80	\$207,580	1
29-1069	Physicians and Surgeons, All Other	9,030	0.3%	9,920	0.3%	890	9.9%	890	1,630	2,520	2,520	\$72.34	\$150,470	1
29-1071	Physician Assistants	2,130	0.1%	2,490	0.1%	360	16.9%	360	300	660	660	\$39.29	\$81,720	3
29-1081	Podiatrists	130	0.0%	130	0.0%	0	3.9%	10	40	40	50	\$55.48	\$115,400	1
29-1111	Registered Nurses	78,370	2.3%	94,480	2.6%	16,110	20.6%	16,110	12,940	29,050	29,050	\$36.03	\$74,940	6
29-1121	Audiologists	290	0.0%	310	0.0%	20	6.2%	20	30	50	50	\$29.99	\$62,380	1
29-1122	Occupational Therapists	4,330	0.1%	5,100	0.1%	770	17.7%	770	640	1,410	1,400	\$31.06	\$64,600	3
29-1123	Physical Therapists	6,580	0.2%	8,060	0.2%	1,480	22.5%	1,480	790	2,270	2,270	\$32.98	\$68,590	3
29-1124	Radiation Therapists	540	0.0%	660	0.0%	120	21.5%	120	80	200	200	\$35.71	\$74,270	6
29-1125	Recreational Therapists	930	0.0%	900	0.0%	-30	-2.6%	0	140	110	140	\$18.56	\$38,600	5
29-1126	Respiratory Therapists	2,190	0.1%	2,640	0.1%	450	20.7%	450	320	770	780	\$27.65	\$57,520	6
29-1127	Speech-Language Pathologists	3,420	0.1%	3,730	0.1%	310	9.3%	320	660	970	980	\$31.98	\$66,530	3
29-1129	Therapists, All Other	1,030	0.0%	1,150	0.0%	120	12.1%	120	120	240	250	\$24.15	\$50,230	5
29-1131	Veterinarians	1,480	0.0%	1,940	0.1%	460	31.1%	460	290	750	750	\$39.18	\$81,490	1
29-1199	Health Diagnosing and Treating Practitioners, All Other	1,970	0.1%	2,130	0.1%	160	8.0%	160	340	500	490	\$47.25	\$98,280	5
<b>29-2000</b>	<b>Health Technologists and Technicians</b>	<b>70,650</b>	<b>2.1%</b>	<b>80,820</b>	<b>2.2%</b>	<b>10,170</b>	<b>14.4%</b>	<b>10,250</b>	<b>15,340</b>	<b>25,510</b>	<b>25,590</b>			

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
29-2011	Medical and Clinical Laboratory Technologists	7,090	0.2%	7,570	0.2%	480	6.9%	490	1,070	1,550	1,560	\$25.54	\$53,120	5
29-2012	Medical and Clinical Laboratory Technicians	7,220	0.2%	8,180	0.2%	960	13.3%	960	1,090	2,050	2,050	\$18.20	\$37,850	6
29-2021	Dental Hygienists	5,530	0.2%	6,680	0.2%	1,150	20.8%	1,150	1,060	2,210	2,200	\$34.56	\$71,890	6
29-2031	Cardiovascular Technologists and Technicians	970	0.0%	1,180	0.0%	210	22.5%	220	130	340	350	\$25.74	\$53,540	6
29-2032	Diagnostic Medical Sonographers	1,140	0.0%	1,280	0.0%	140	12.5%	140	160	300	300	\$33.47	\$69,630	6
29-2033	Nuclear Medicine Technologists	520	0.0%	580	0.0%	60	11.5%	60	70	130	130	\$34.03	\$70,780	6
29-2034	Radiologic Technologists and Technicians	5,980	0.2%	6,690	0.2%	710	11.9%	710	810	1,520	1,520	\$30.72	\$63,910	6
29-2041	Emergency Medical Technicians and Paramedics	4,950	0.1%	5,730	0.2%	780	15.8%	780	570	1,350	1,350	\$18.12	\$37,690	7
29-2051	Dietetic Technicians	1,450	0.0%	1,590	0.0%	140	9.7%	140	440	580	580	\$12.95	\$26,930	7
29-2052	Pharmacy Technicians	5,740	0.2%	7,400	0.2%	1,660	28.9%	1,660	1,750	3,410	3,410	\$14.17	\$29,480	10
29-2053	Psychiatric Technicians	560	0.0%	510	0.0%	-50	-7.6%	0	170	120	170	\$16.49	\$34,300	7
29-2054	Respiratory Therapy Technicians	240	0.0%	240	0.0%	0	-2.5%	0	70	70	70	\$23.48	\$48,840	6
29-2055	Surgical Technologists	1,870	0.1%	2,290	0.1%	420	22.1%	410	570	990	990	\$20.45	\$42,540	7
29-2056	Veterinary Technologists and Technicians	1,840	0.1%	2,450	0.1%	610	33.5%	620	560	1,170	1,180	\$15.93	\$33,130	6
29-2061	Licensed Practical and Licensed Voc. Nurses	17,450	0.5%	19,500	0.5%	2,050	11.7%	2,040	4,760	6,810	6,800	\$23.46	\$48,790	7
29-2071	Medical Records and Health Information Technicians	5,640	0.2%	6,400	0.2%	760	13.5%	760	1,530	2,290	2,290	\$16.27	\$33,850	6
29-2081	Opticians, Dispensing	1,420	0.0%	1,400	0.0%	-20	-1.7%	0	450	430	450	\$23.78	\$49,460	9
29-2091	Orthotists and Prosthetists	230	0.0%	260	0.0%	30	12.0%	30	20	50	50	\$27.24	\$56,670	5
29-2099	Health Technologists and Technicians, All Other	800	0.0%	880	0.0%	80	10.5%	80	60	140	150	\$20.31	\$42,250	7
<b>29-9000</b>	<b>Other Healthcare Practitioners and Tech. Occupations</b>	<b>2,620</b>	<b>0.1%</b>	<b>2,960</b>	<b>0.1%</b>	<b>340</b>	<b>12.9%</b>	<b>340</b>	<b>500</b>	<b>840</b>	<b>840</b>			
29-9011	Occupational Health and Safety Specialists	1,060	0.0%	1,200	0.0%	140	13.6%	140	200	340	350	\$32.00	\$66,560	5
29-9099	Healthcare Practitioners and Technical Workers, All Other	600	0.0%	660	0.0%	60	10.1%	60	110	170	180	\$29.83	\$62,050	5
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>100,230</b>	<b>2.9%</b>	<b>117,150</b>	<b>3.2%</b>	<b>16,920</b>	<b>16.9%</b>	<b>17,210</b>	<b>10,450</b>	<b>27,370</b>	<b>27,650</b>	<b>\$14.31</b>	<b>\$29,760</b>	

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
<b>31-1000</b>	<b>Nursing, Psychiatric and Home Health Aides</b>	<b>67,620</b>	<b>2.0%</b>	<b>78,930</b>	<b>2.2%</b>	<b>11,310</b>	<b>16.7%</b>	<b>11,420</b>	<b>6,050</b>	<b>17,360</b>	<b>17,470</b>			
31-1011	Home Health Aides	17,330	0.5%	23,150	0.6%	5,820	33.6%	5,830	1,550	7,370	7,380	\$12.16	\$25,290	11
31-1012	Nursing Aides, Orderlies, and Attendants	41,620	1.2%	47,210	1.3%	5,590	13.4%	5,590	3,730	9,320	9,310	\$13.42	\$27,920	7
31-1013	Psychiatric Aides	8,670	0.3%	8,570	0.2%	-100	-1.2%	0	780	680	780	\$14.17	\$29,480	11
<b>31-2000</b>	<b>Occupational and Physical Therapist Assistants and Aides</b>	<b>4,430</b>	<b>0.1%</b>	<b>5,350</b>	<b>0.1%</b>	<b>920</b>	<b>20.8%</b>	<b>920</b>	<b>600</b>	<b>1,520</b>	<b>1,520</b>			
31-2011	Occupational Therapist Assistants	1,020	0.0%	1,190	0.0%	170	16.6%	170	160	330	330	\$20.92	\$43,510	6
31-2012	Occupational Therapist Aides	270	0.0%	300	0.0%	30	13.4%	40	40	70	80	\$15.97	\$33,210	11
31-2021	Physical Therapist Assistants	2,000	0.1%	2,530	0.1%	530	26.9%	540	260	790	790	\$22.75	\$47,310	6
31-2022	Physical Therapist Aides	1,150	0.0%	1,330	0.0%	180	15.6%	180	150	330	330	\$13.96	\$29,030	11
<b>31-9000</b>	<b>Other Healthcare Support Occupations</b>	<b>28,180</b>	<b>0.8%</b>	<b>32,870</b>	<b>0.9%</b>	<b>4,690</b>	<b>16.6%</b>	<b>4,870</b>	<b>3,800</b>	<b>8,490</b>	<b>8,670</b>			
31-9011	Massage Therapists	1,920	0.1%	2,310	0.1%	390	20.5%	390	220	610	610	\$19.07	\$39,670	7
31-9091	Dental Assistants	6,430	0.2%	7,740	0.2%	1,310	20.4%	1,310	1,120	2,430	2,430	\$18.05	\$37,550	10
31-9092	Medical Assistants	9,630	0.3%	11,930	0.3%	2,300	23.9%	2,300	1,200	3,500	3,500	\$15.84	\$32,940	10
31-9093	Medical Equipment Preparers	1,190	0.0%	1,330	0.0%	140	12.3%	150	150	290	290	\$15.42	\$32,060	11
31-9094	Medical Transcriptionists	1,940	0.1%	2,130	0.1%	190	9.9%	190	240	430	430	\$18.94	\$39,400	7
31-9095	Pharmacy Aides	1,400	0.0%	1,210	0.0%	-190	-13.4%	0	170	-20	170	\$10.60	\$22,040	11
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	2,050	0.1%	2,200	0.1%	150	7.3%	150	250	400	400	\$14.26	\$29,660	11
31-9099	Healthcare Support Workers, All Other	3,640	0.1%	4,020	0.1%	380	10.3%	380	450	830	830	\$16.33	\$33,970	11
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>73,230</b>	<b>2.1%</b>	<b>77,900</b>	<b>2.1%</b>	<b>4,670</b>	<b>6.4%</b>	<b>4,790</b>	<b>21,060</b>	<b>25,730</b>	<b>25,860</b>	<b>\$20.75</b>	<b>\$43,160</b>	
<b>33-1000</b>	<b>First-Line Supervisors/Managers, Protective Service Workers</b>	<b>5,810</b>	<b>0.2%</b>	<b>6,010</b>	<b>0.2%</b>	<b>200</b>	<b>3.5%</b>	<b>200</b>	<b>1,650</b>	<b>1,850</b>	<b>1,850</b>			
33-1012	First-Line Supervisors/Managers of Police and Detectives	2,800	0.1%	2,860	0.1%	60	2.1%	60	880	940	940	\$38.11	\$79,280	8
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	1,800	0.1%	1,870	0.1%	70	4.2%	80	560	630	640	\$34.09	\$70,910	8
<b>33-2000</b>	<b>Fire Fighting and Prevention Workers</b>	<b>12,990</b>	<b>0.4%</b>	<b>13,540</b>	<b>0.4%</b>	<b>550</b>	<b>4.2%</b>	<b>540</b>	<b>4,700</b>	<b>5,250</b>	<b>5,240</b>			
33-2011	Fire Fighters	12,710	0.4%	13,240	0.4%	530	4.2%	530	4,630	5,160	5,160	\$23.32	\$48,500	9
<b>33-3000</b>	<b>Law Enforcement Workers</b>	<b>25,380</b>	<b>0.7%</b>	<b>27,080</b>	<b>0.7%</b>	<b>1,700</b>	<b>6.7%</b>	<b>1,700</b>	<b>6,450</b>	<b>8,150</b>	<b>8,150</b>			

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
33-3011	Bailiffs	1,240	0.0%	1,340	0.0%	100	7.9%	100	280	380	380	\$26.42	\$54,950	10
33-3012	Correctional Officers and Jailers	5,290	0.2%	6,090	0.2%	800	15.2%	800	1,210	2,010	2,010	\$25.50	\$53,030	10
33-3021	Detectives and Criminal Investigators	1,400	0.0%	1,570	0.0%	170	12.3%	170	310	480	480	\$34.39	\$71,520	8
33-3041	Parking Enforcement Workers	750	0.0%	790	0.0%	40	4.2%	30	190	230	220	\$16.61	\$34,550	11
33-3051	Police and Sheriff's Patrol Officers	16,480	0.5%	17,080	0.5%	600	3.6%	600	4,410	5,010	5,000	\$25.37	\$52,760	9
<b>33-9000</b>	<b>Other Protective Service Workers</b>	<b>29,050</b>	<b>0.8%</b>	<b>31,270</b>	<b>0.9%</b>	<b>2,220</b>	<b>7.7%</b>	<b>2,350</b>	<b>8,270</b>	<b>10,490</b>	<b>10,620</b>			
33-9011	Animal Control Workers	440	0.0%	460	0.0%	20	4.3%	20	90	110	110	\$15.60	\$32,440	10
33-9021	Private Detectives and Investigators	670	0.0%	760	0.0%	90	12.5%	80	130	220	220	\$16.60	\$34,530	8
33-9032	Security Guards	21,920	0.6%	23,810	0.6%	1,890	8.6%	1,890	4,450	6,340	6,340	\$12.67	\$26,350	11
33-9091	Crossing Guards	1,820	0.1%	1,700	0.0%	-120	-6.7%	0	520	400	520	\$12.69	\$26,400	11
33-9092	Lifeguards, Ski Patrol and Other Rec. Protective Service Workers	3,040	0.1%	3,320	0.1%	280	9.1%	280	2,250	2,530	2,530	\$11.05	\$22,990	11
<b>35-0000</b>	<b>Food Preparation and Serving Related Occupations</b>	<b>267,040</b>	<b>7.7%</b>	<b>291,450</b>	<b>7.9%</b>	<b>24,410</b>	<b>9.1%</b>	<b>24,430</b>	<b>97,120</b>	<b>121,530</b>	<b>121,550</b>	<b>\$11.17</b>	<b>\$23,230</b>	
35-1011	Chefs and Head Cooks	4,040	0.1%	4,190	0.1%	150	3.8%	160	510	660	670	\$21.37	\$44,440	8
35-1012	First-Line Supervisors/Managers of Food Prep. and Serving Workers	16,890	0.5%	18,210	0.5%	1,320	7.9%	1,330	1,270	2,590	2,600	\$16.54	\$34,410	8
<b>35-2000</b>	<b>Cooks and Food Preparation Workers</b>	<b>62,540</b>	<b>1.8%</b>	<b>68,240</b>	<b>1.9%</b>	<b>5,700</b>	<b>9.1%</b>	<b>5,730</b>	<b>18,890</b>	<b>24,590</b>	<b>24,620</b>			
35-2011	Cooks, Fast Food	7,010	0.2%	7,420	0.2%	410	5.9%	420	1,900	2,310	2,310	\$9.79	\$20,360	11
35-2012	Cooks, Institution and Cafeteria	6,620	0.2%	7,170	0.2%	550	8.3%	550	1,790	2,340	2,350	\$13.87	\$28,840	10
35-2014	Cooks, Restaurant	17,390	0.5%	18,780	0.5%	1,390	8.0%	1,390	4,710	6,100	6,100	\$12.57	\$26,140	9
35-2015	Cooks, Short Order	4,990	0.1%	5,020	0.1%	30	0.7%	30	1,350	1,380	1,380	\$11.27	\$23,450	11
35-2021	Food Preparation Workers	25,690	0.7%	29,030	0.8%	3,340	13.0%	3,340	8,910	12,250	12,250	\$10.36	\$21,560	11
<b>35-3000</b>	<b>Food and Beverage Serving Workers</b>	<b>150,800</b>	<b>4.4%</b>	<b>165,720</b>	<b>4.5%</b>	<b>14,920</b>	<b>9.9%</b>	<b>14,920</b>	<b>60,570</b>	<b>75,490</b>	<b>75,490</b>			
35-3011	Bartenders	17,820	0.5%	19,100	0.5%	1,280	7.2%	1,290	6,480	7,760	7,770	\$11.50	\$23,910	11
35-3021	Comb. Fd. Prep. and Srvng. Wrks., Incl. Fast Food	52,880	1.5%	60,640	1.7%	7,760	14.7%	7,760	10,030	17,790	17,780	\$9.21	\$19,170	11
35-3022	Cntr. Atndts., Caf., Fd. Concs. and Cof. Shop	19,670	0.6%	20,900	0.6%	1,230	6.2%	1,230	13,650	14,880	14,880	\$9.36	\$19,480	11
35-3031	Waiters and Waitresses	54,200	1.6%	58,180	1.6%	3,980	7.3%	3,980	29,450	33,430	33,430	\$11.65	\$24,220	11
35-3041	Food Servers, Nonrestaurant	6,230	0.2%	6,900	0.2%	670	10.8%	670	960	1,630	1,630	\$11.04	\$22,950	11

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
35-9011	Dining Room, Cafeteria Attendants and Bartender Helpers	8,630	0.3%	9,310	0.3%	680	7.8%	680	3,610	4,290	4,290	\$10.05	\$20,900	11
35-9021	Dishwashers	14,940	0.4%	15,930	0.4%	990	6.6%	990	6,100	7,090	7,090	\$9.24	\$19,230	11
<b>37-0000</b>	<b>Building and Grounds Cleaning and Maintenance Occupations</b>	<b>120,900</b>	<b>3.5%</b>	<b>133,590</b>	<b>3.6%</b>	<b>12,690</b>	<b>10.5%</b>	<b>12,690</b>	<b>20,630</b>	<b>33,320</b>	<b>33,320</b>	<b>\$13.60</b>	<b>\$28,290</b>	
<b>37-1000</b>	<b>Supvrs., Bld. and Grnd. Cng. and Maint. Wrks.</b>	<b>11,370</b>	<b>0.3%</b>	<b>12,490</b>	<b>0.3%</b>	<b>1,120</b>	<b>9.8%</b>	<b>1,120</b>	<b>1,300</b>	<b>2,420</b>	<b>2,420</b>			
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	6,630	0.2%	7,160	0.2%	530	8.0%	530	980	1,510	1,500	\$20.20	\$42,020	8
37-1012	First-Line Supervisors/Managers of Landscape, Lawn Service and Groundskeeping Workers	4,740	0.1%	5,330	0.1%	590	12.4%	590	320	910	910	\$22.89	\$47,620	8
<b>37-2000</b>	<b>Bld. Cleaning and Pest Control Workers</b>	<b>82,270</b>	<b>2.4%</b>	<b>90,270</b>	<b>2.5%</b>	<b>8,000</b>	<b>9.7%</b>	<b>8,000</b>	<b>15,730</b>	<b>23,730</b>	<b>23,730</b>			
37-2011	Janitors and Cleaners, Exc. Maids and Housekeeping Cleaners	60,040	1.7%	65,370	1.8%	5,330	8.9%	5,330	11,490	16,820	16,830	\$12.99	\$27,020	11
37-2012	Maids and Housekeeping Cleaners	20,750	0.6%	23,270	0.6%	2,520	12.2%	2,520	3,910	6,430	6,430	\$11.04	\$22,950	11
37-2019	Building Cleaning Workers, All Other	540	0.0%	580	0.0%	40	8.8%	50	100	140	150	\$13.51	\$28,110	11
37-2021	Pest Control Workers	950	0.0%	1,050	0.0%	100	10.5%	100	230	330	330	\$15.94	\$33,150	10
<b>37-3000</b>	<b>Grounds Maintenance Workers</b>	<b>27,260</b>	<b>0.8%</b>	<b>30,830</b>	<b>0.8%</b>	<b>3,570</b>	<b>13.1%</b>	<b>3,570</b>	<b>3,600</b>	<b>7,170</b>	<b>7,170</b>			
37-3011	Landscaping and Groundskeeping Workers	25,200	0.7%	28,570	0.8%	3,370	13.4%	3,370	3,330	6,700	6,690	\$14.48	\$30,130	11
37-3012	Pesticide Handlers, Sprayers and Applicators, Vegetation	420	0.0%	480	0.0%	60	12.3%	50	60	120	110	\$16.32	\$33,950	10
37-3013	Tree Trimmers and Pruners	1,280	0.0%	1,390	0.0%	110	8.4%	110	170	280	280	\$17.89	\$37,210	11
37-3019	Grounds Maintenance Workers, All Other	360	0.0%	400	0.0%	40	11.5%	40	50	90	90	\$15.11	\$31,420	11
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>91,730</b>	<b>2.7%</b>	<b>107,350</b>	<b>2.9%</b>	<b>15,620</b>	<b>17.0%</b>	<b>15,980</b>	<b>20,140</b>	<b>35,760</b>	<b>36,130</b>	<b>\$13.94</b>	<b>\$28,990</b>	
<b>39-1000</b>	<b>Supervisors, Personal Care and Service Workers</b>	<b>5,570</b>	<b>0.2%</b>	<b>6,340</b>	<b>0.2%</b>	<b>770</b>	<b>13.7%</b>	<b>770</b>	<b>1,200</b>	<b>1,970</b>	<b>1,960</b>			
39-1021	First-Line Supervisors/Managers of Personal Service Workers	5,430	0.2%	6,180	0.2%	750	13.7%	750	1,170	1,920	1,920	\$19.04	\$39,590	8
<b>39-2000</b>	<b>Animal Care and Service Workers</b>	<b>3,770</b>	<b>0.1%</b>	<b>4,240</b>	<b>0.1%</b>	<b>470</b>	<b>12.2%</b>	<b>460</b>	<b>610</b>	<b>1,080</b>	<b>1,070</b>			
39-2011	Animal Trainers	150	0.0%	200	0.0%	50	29.1%	40	30	80	70	\$16.37	\$34,050	10

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
39-2021	Nonfarm Animal Caretakers	3,620	0.1%	4,040	0.1%	420	11.5%	420	580	1,000	1,000	\$11.49	\$23,900	11
<b>39-3000</b>	<b>Entertainment Attendants and Related Workers</b>	<b>6,780</b>	<b>0.2%</b>	<b>7,570</b>	<b>0.2%</b>	<b>790</b>	<b>11.6%</b>	<b>810</b>	<b>3,690</b>	<b>4,480</b>	<b>4,500</b>			
39-3021	Motion Picture Projectionists	110	0.0%	90	0.0%	-20	-20.5%	0	50	30	50	\$11.67	\$24,270	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	2,010	0.1%	2,210	0.1%	200	9.5%	190	1,410	1,610	1,610	\$9.27	\$19,280	11
39-3091	Amusement and Recreation Attendants	3,250	0.1%	3,660	0.1%	410	12.6%	410	1,600	2,010	2,010	\$10.28	\$21,370	11
39-3093	Locker Room, Coatroom and Dressing Room Attendants	770	0.0%	860	0.0%	90	12.1%	90	380	470	470	\$9.84	\$20,460	11
<b>39-4000</b>	<b>Funeral Service Workers</b>	<b>950</b>	<b>0.0%</b>	<b>1,050</b>	<b>0.0%</b>	<b>100</b>	<b>10.4%</b>	<b>100</b>	<b>230</b>	<b>330</b>	<b>330</b>			
<b>39-5000</b>	<b>Personal Appearance Workers</b>	<b>21,440</b>	<b>0.6%</b>	<b>25,490</b>	<b>0.7%</b>	<b>4,050</b>	<b>18.9%</b>	<b>4,050</b>	<b>2,560</b>	<b>6,610</b>	<b>6,600</b>			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	16,270	0.5%	19,380	0.5%	3,110	19.1%	3,110	1,940	5,050	5,050	\$14.65	\$30,470	7
39-5092	Manicurists and Pedicurists	1,690	0.0%	1,980	0.1%	290	17.4%	290	180	470	470	\$11.39	\$23,680	7
39-5093	Shampoers	1,100	0.0%	1,260	0.0%	160	14.6%	160	110	270	270	\$9.50	\$19,750	11
39-5094	Skin Care Specialists	1,380	0.0%	1,770	0.0%	390	28.5%	390	140	530	540	\$16.40	\$34,120	7
<b>39-6000</b>	<b>Transportation, Tourism and Lodging Attendants</b>	<b>6,020</b>	<b>0.2%</b>	<b>6,490</b>	<b>0.2%</b>	<b>470</b>	<b>7.8%</b>	<b>470</b>	<b>1,240</b>	<b>1,710</b>	<b>1,710</b>			
39-6011	Baggage Porters and Bellhops	760	0.0%	780	0.0%	20	2.1%	20	100	120	110	\$12.25	\$25,470	11
39-6012	Concierges	1,380	0.0%	1,480	0.0%	100	7.7%	110	180	280	280	\$13.93	\$28,980	10
39-6021	Tour Guides and Escorts	1,200	0.0%	1,340	0.0%	140	11.0%	130	480	620	610	\$12.23	\$25,440	10
39-6031	Flight Attendants	2,340	0.1%	2,510	0.1%	170	7.4%	170	410	580	580	*	\$65,940	9
39-6032	Transport Attendants, Exc. Flight Attendants and Baggage Porters	260	0.0%	300	0.0%	40	13.7%	40	50	90	80	\$9.85	\$20,480	11
<b>39-9000</b>	<b>Other Personal Care and Service Workers</b>	<b>47,180</b>	<b>1.4%</b>	<b>56,180</b>	<b>1.5%</b>	<b>9,000</b>	<b>19.1%</b>	<b>9,340</b>	<b>10,620</b>	<b>19,620</b>	<b>19,960</b>			
39-9011	Child Care Workers	16,280	0.5%	19,750	0.5%	3,470	21.4%	3,480	4,680	8,150	8,150	\$10.82	\$22,500	11
39-9021	Personal and Home Care Aides	11,190	0.3%	15,200	0.4%	4,010	35.9%	4,010	1,900	5,910	5,910	\$11.47	\$23,860	11
39-9031	Fitness Trainers and Aerobics Instructors	7,090	0.2%	8,030	0.2%	940	13.2%	940	1,330	2,270	2,260	\$20.68	\$43,020	7
39-9032	Recreation Workers	7,750	0.2%	8,200	0.2%	450	5.7%	440	1,450	1,900	1,890	\$12.40	\$25,780	11

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>361,890</b>	<b>10.5%</b>	<b>369,880</b>	<b>10.1%</b>	<b>7,990</b>	<b>2.2%</b>	<b>14,310</b>	<b>107,970</b>	<b>115,960</b>	<b>122,280</b>	<b>\$19.50</b>	<b>\$40,550</b>	
<b>41-1000</b>	<b>Supervisors, Sales Workers</b>	<b>47,900</b>	<b>1.4%</b>	<b>47,760</b>	<b>1.3%</b>	<b>-140</b>	<b>-0.3%</b>	<b>0</b>	<b>9,300</b>	<b>9,160</b>	<b>9,300</b>			
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	36,500	1.1%	36,430	1.0%	-70	-0.2%	0	7,660	7,590	7,660	\$19.66	\$40,890	8
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	11,390	0.3%	11,330	0.3%	-60	-0.5%	0	1,640	1,580	1,640	\$39.97	\$83,140	8
41-2011	Cashiers	75,250	2.2%	70,710	1.9%	-4,540	-6.0%	0	35,780	31,240	35,780	\$9.57	\$19,900	11
41-2021	Counter and Rental Clerks	8,930	0.3%	9,780	0.3%	850	9.6%	860	3,400	4,250	4,260	\$13.30	\$27,660	11
41-2031	Retail Salespersons	110,750	3.2%	116,040	3.2%	5,290	4.8%	5,280	34,100	39,390	39,380	\$12.18	\$25,320	11
<b>41-3000</b>	<b>Sales Representatives, Services</b>	<b>37,570</b>	<b>1.1%</b>	<b>40,770</b>	<b>1.1%</b>	<b>3,200</b>	<b>8.5%</b>	<b>3,600</b>	<b>8,120</b>	<b>11,320</b>	<b>11,720</b>			
41-3011	Advertising Sales Agents	3,400	0.1%	4,040	0.1%	640	18.6%	630	600	1,240	1,230	\$28.30	\$58,870	10
41-3021	Insurance Sales Agents	9,950	0.3%	10,420	0.3%	470	4.8%	470	2,160	2,630	2,630	\$35.96	\$74,800	5
41-3031	Securities, Commodities and Financial Services Sales Agents	9,250	0.3%	8,920	0.2%	-330	-3.6%	0	2,370	2,040	2,370	\$51.34	\$106,780	5
41-3041	Travel Agents	3,190	0.1%	3,130	0.1%	-60	-2.0%	0	220	160	220	\$16.30	\$33,910	7
41-3099	Sales Representatives, Services, All Other	11,780	0.3%	14,280	0.4%	2,500	21.2%	2,500	2,770	5,270	5,270	\$31.58	\$65,700	8
<b>41-4000</b>	<b>Sales Reps., Wholesale and Manufacturing</b>	<b>52,190</b>	<b>1.5%</b>	<b>55,850</b>	<b>1.5%</b>	<b>3,660</b>	<b>7.0%</b>	<b>3,650</b>	<b>11,520</b>	<b>15,180</b>	<b>15,170</b>			
41-4011	Sales Reps., Wholesale and Mfg., Tech. and Scientific Products	19,230	0.6%	21,510	0.6%	2,280	11.8%	2,280	4,240	6,520	6,520	\$42.57	\$88,550	8
41-4012	Sales Reps., Wholesale and Mfg., Exc. Tech. and Scientific Products	32,960	1.0%	34,340	0.9%	1,380	4.2%	1,380	7,270	8,650	8,650	\$33.00	\$68,630	8
41-9011	Demonstrators and Product Promoters	1,630	0.0%	1,730	0.0%	100	6.5%	110	460	560	570	\$14.35	\$29,840	10
41-9021	Real Estate Brokers	1,210	0.0%	1,220	0.0%	10	0.8%	10	190	200	200	\$32.97	\$68,570	8
41-9022	Real Estate Sales Agents	3,650	0.1%	3,610	0.1%	-40	-1.1%	0	580	540	580	\$32.82	\$68,270	7
41-9031	Sales Engineers	3,420	0.1%	3,580	0.1%	160	4.5%	150	860	1,020	1,020	\$44.39	\$92,330	5
41-9041	Telemarketers	5,570	0.2%	4,960	0.1%	-610	-10.9%	0	1,960	1,350	1,960	\$17.66	\$36,740	11
41-9099	Sales and Related Workers, All Other	3,440	0.1%	3,660	0.1%	220	6.3%	220	310	530	530	\$22.48	\$46,750	10
<b>43-0000</b>	<b>Office Admin. Support Occupations</b>	<b>567,950</b>	<b>16.4%</b>	<b>575,580</b>	<b>15.7%</b>	<b>7,630</b>	<b>1.3%</b>	<b>28,290</b>	<b>119,710</b>	<b>127,340</b>	<b>148,010</b>	<b>\$17.25</b>	<b>\$35,870</b>	
<b>43-1000</b>	<b>Supervisors, Office and Admin. Support Workers</b>	<b>33,060</b>	<b>1.0%</b>	<b>32,700</b>	<b>0.9%</b>	<b>-360</b>	<b>-1.1%</b>	<b>0</b>	<b>6,820</b>	<b>6,460</b>	<b>6,820</b>			

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	33,060	1.0%	32,700	0.9%	-360	-1.1%	0	6,820	6,460	6,820	\$25.39	\$52,820	8
<b>43-2000</b>	<b>Communications Equipment Operators</b>	<b>6,190</b>	<b>0.2%</b>	<b>4,930</b>	<b>0.1%</b>	<b>-1,260</b>	<b>-20.4%</b>	<b>0</b>	<b>1,190</b>	<b>-70</b>	<b>1,190</b>			
43-2011	Switchboard Operators, Incl. Answering Service	4,990	0.1%	4,180	0.1%	-810	-16.2%	0	1,040	230	1,040	\$12.96	\$26,960	11
<b>43-3000</b>	<b>Financial Clerks</b>	<b>96,600</b>	<b>2.8%</b>	<b>101,600</b>	<b>2.8%</b>	<b>5,000</b>	<b>5.2%</b>	<b>5,320</b>	<b>19,650</b>	<b>24,650</b>	<b>24,970</b>			
43-3011	Bill and Account Collectors	7,970	0.2%	8,790	0.2%	820	10.3%	820	1,210	2,030	2,030	\$17.98	\$37,410	11
43-3021	Billing and Posting Clerks and Machine Operators	14,060	0.4%	13,850	0.4%	-210	-1.5%	0	1,800	1,590	1,800	\$16.41	\$34,130	10
43-3031	Bookkeeping, Accounting, and Auditing Clerks	51,300	1.5%	54,250	1.5%	2,950	5.8%	2,950	8,030	10,980	10,980	\$18.07	\$37,590	10
43-3051	Payroll and Timekeeping Clerks	5,820	0.2%	5,930	0.2%	110	1.8%	110	1,470	1,580	1,580	\$18.85	\$39,200	10
43-3071	Tellers	15,400	0.4%	16,840	0.5%	1,440	9.3%	1,440	6,740	8,180	8,170	\$12.94	\$26,920	11
<b>43-4000</b>	<b>Information and Record Clerks</b>	<b>126,420</b>	<b>3.7%</b>	<b>133,390</b>	<b>3.6%</b>	<b>6,970</b>	<b>5.5%</b>	<b>12,660</b>	<b>32,560</b>	<b>39,530</b>	<b>45,220</b>			
43-4031	Court, Municipal, and License Clerks	1,300	0.0%	1,330	0.0%	30	2.9%	40	300	330	330	\$21.42	\$44,550	11
43-4041	Credit Authorizers, Checkers, and Clerks	880	0.0%	750	0.0%	-130	-15.0%	0	270	140	270	\$18.75	\$38,990	11
43-4051	Customer Service Representatives	53,660	1.6%	62,050	1.7%	8,390	15.6%	8,390	14,940	23,330	23,330	\$17.83	\$37,090	10
43-4061	Eligibility Interviewers, Government Programs	2,350	0.1%	2,390	0.1%	40	2.0%	50	410	450	460	\$22.15	\$46,060	10
43-4071	File Clerks	5,280	0.2%	2,940	0.1%	-2,340	-44.3%	0	1,400	-940	1,400	\$12.32	\$25,620	11
43-4081	Hotel, Motel, and Resort Desk Clerks	3,670	0.1%	4,180	0.1%	510	13.8%	510	1,490	2,000	1,990	\$11.68	\$24,300	11
43-4111	Interviewers, Except Eligibility and Loan	5,460	0.2%	5,890	0.2%	430	8.0%	440	1,430	1,860	1,870	\$15.93	\$33,130	11
43-4121	Library Assistants, Clerical	3,340	0.1%	3,390	0.1%	50	1.5%	50	1,060	1,110	1,110	\$13.72	\$28,540	11
43-4131	Loan Interviewers and Clerks	3,680	0.1%	3,460	0.1%	-220	-5.9%	0	640	420	640	\$17.49	\$36,390	11
43-4141	New Accounts Clerks	1,500	0.0%	1,210	0.0%	-290	-19.7%	0	440	150	440	\$16.88	\$35,110	8
43-4151	Order Clerks	5,190	0.2%	3,470	0.1%	-1,720	-33.2%	0	1,090	-630	1,090	\$16.42	\$34,160	11
43-4161	Human Resources Assistants, Exc. Payroll and Timekeeping	3,430	0.1%	3,680	0.1%	250	7.2%	250	250	500	500	\$18.85	\$39,210	11
43-4171	Receptionists and Information Clerks	26,440	0.8%	29,310	0.8%	2,870	10.8%	2,870	6,470	9,340	9,330	\$12.79	\$26,610	11
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	2,550	0.1%	2,500	0.1%	-50	-1.9%	0	560	510	560	\$16.02	\$33,320	11

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
43-4199	Information and Record Clerks, All Other	3,750	0.1%	3,050	0.1%	-700	-18.7%	0	600	-100	600	\$17.11	\$35,590	11
<b>43-5000</b>	<b>Material Recording, Scheduling, Dispatching and Distributing Workers</b>	<b>92,780</b>	<b>2.7%</b>	<b>85,900</b>	<b>2.3%</b>	<b>-6,880</b>	<b>-7.4%</b>	<b>390</b>	<b>22,280</b>	<b>15,400</b>	<b>22,680</b>			
43-5011	Cargo and Freight Agents	1,190	0.0%	1,300	0.0%	110	10.0%	120	320	430	440	\$20.58	\$42,820	10
43-5021	Couriers and Messengers	2,820	0.1%	2,780	0.1%	-40	-1.4%	0	770	730	770	\$13.52	\$28,120	11
43-5031	Police, Fire, and Ambulance Dispatchers	2,770	0.1%	3,050	0.1%	280	10.0%	280	700	980	980	\$18.00	\$37,430	10
43-5032	Dispatchers, Except Police, Fire and Ambulance	3,610	0.1%	3,490	0.1%	-120	-3.3%	0	910	790	910	\$18.68	\$38,840	10
43-5041	Meter Readers, Utilities	440	0.0%	370	0.0%	-70	-15.8%	0	140	70	140	\$19.01	\$39,540	11
43-5051	Postal Service Clerks	2,580	0.1%	2,430	0.1%	-150	-5.8%	0	580	430	580	\$21.42	\$44,560	11
43-5052	Postal Service Mail Carriers	8,970	0.3%	8,440	0.2%	-530	-5.9%	0	2,630	2,100	2,630	\$21.32	\$44,330	11
43-5053	Postal Service Mail Sorters, Processor and Processing Machine Operators	5,890	0.2%	5,030	0.1%	-860	-14.6%	0	630	-230	630	\$20.23	\$42,080	11
43-5061	Production, Planning, and Expediting Clerks	6,400	0.2%	6,280	0.2%	-120	-2.0%	0	1,740	1,620	1,740	\$22.66	\$47,120	10
43-5071	Shipping, Receiving, and Traffic Clerks	18,670	0.5%	18,170	0.5%	-500	-2.7%	0	4,470	3,970	4,470	\$15.40	\$32,030	11
43-5081	Stock Clerks and Order Fillers	38,360	1.1%	33,630	0.9%	-4,730	-12.3%	0	9,100	4,370	9,100	\$11.97	\$24,890	11
43-5111	Weighers, Measurers, Checkers and Samplers, Recordkeeping	1,100	0.0%	940	0.0%	-160	-14.3%	0	290	130	290	\$17.24	\$35,850	11
<b>43-6000</b>	<b>Secretaries and Administrative Assistants</b>	<b>117,410</b>	<b>3.4%</b>	<b>121,580</b>	<b>3.3%</b>	<b>4,170</b>	<b>3.6%</b>	<b>6,190</b>	<b>18,700</b>	<b>22,870</b>	<b>24,890</b>			
43-6011	Executive Secretaries and Admin. Assistants	49,840	1.4%	53,720	1.5%	3,880	7.8%	3,880	7,940	11,820	11,810	\$22.08	\$45,930	8
43-6012	Legal Secretaries	7,150	0.2%	7,770	0.2%	620	8.6%	620	1,140	1,760	1,750	\$22.47	\$46,730	6
43-6013	Medical Secretaries	18,600	0.5%	20,300	0.6%	1,700	9.1%	1,700	2,960	4,660	4,660	\$16.72	\$34,780	10
43-6014	Secretaries, Except Legal, Medical and Executive	41,820	1.2%	39,800	1.1%	-2,020	-4.8%	0	6,660	4,640	6,660	\$17.14	\$35,650	10
<b>43-9000</b>	<b>Other Office and Admin. Support Workers</b>	<b>95,490</b>	<b>2.8%</b>	<b>95,480</b>	<b>2.6%</b>	<b>-10</b>	<b>0.0%</b>	<b>3,730</b>	<b>18,510</b>	<b>18,500</b>	<b>22,240</b>			
43-9011	Computer Operators	2,680	0.1%	1,840	0.1%	-840	-31.3%	0	430	-410	430	\$18.87	\$39,260	10
43-9021	Data Entry Keyers	6,830	0.2%	6,210	0.2%	-620	-9.0%	0	1,680	1,060	1,680	\$14.38	\$29,910	10
43-9022	Word Processors and Typists	2,500	0.1%	2,140	0.1%	-360	-14.2%	0	470	110	470	\$16.60	\$34,540	10
43-9031	Desktop Publishers	1,760	0.1%	1,770	0.0%	10	1.0%	20	360	370	370	\$22.73	\$47,270	7

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
43-9041	Insurance Claims and Policy Processing Clerks	6,070	0.2%	5,740	0.2%	-330	-5.4%	0	730	400	730	\$17.86	\$37,150	10
43-9051	Mail Clerks and Mail Machine Operators, Exc. Postal Service	3,840	0.1%	3,030	0.1%	-810	-21.1%	0	1,010	200	1,010	\$13.68	\$28,460	11
43-9061	Office Clerks, General	65,060	1.9%	68,600	1.9%	3,540	5.4%	3,540	11,940	15,480	15,480	\$14.45	\$30,050	11
43-9071	Office Machine Operators, Except Computer	2,450	0.1%	2,070	0.1%	-380	-15.5%	0	810	430	810	\$13.30	\$27,660	11
43-9081	Proofreaders and Copy Markers	700	0.0%	790	0.0%	90	13.0%	90	140	230	230	\$17.78	\$36,980	11
43-9111	Statistical Assistants	650	0.0%	740	0.0%	90	13.0%	90	290	380	370	\$19.84	\$41,260	10
43-9199	Office and Admin. Support Workers, All Other	2,960	0.1%	2,550	0.1%	-410	-13.9%	0	660	250	660	\$17.21	\$35,800	11
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>2,330</b>	<b>0.1%</b>	<b>2,470</b>	<b>0.1%</b>	<b>140</b>	<b>5.9%</b>	<b>150</b>	<b>500</b>	<b>640</b>	<b>640</b>	<b>\$12.01</b>	<b>\$24,990</b>	
<b>45-2000</b>	<b>Agricultural Workers</b>	<b>1,470</b>	<b>0.0%</b>	<b>1,530</b>	<b>0.0%</b>	<b>60</b>	<b>3.9%</b>	<b>60</b>	<b>300</b>	<b>360</b>	<b>360</b>			
45-2041	Graders and Sorters, Agricultural Products	640	0.0%	660	0.0%	20	2.8%	20	90	110	110	\$9.82	\$20,420	8
45-2092	Farmworkers and Laborers, Crop, Nursery and Greenhouse	750	0.0%	780	0.0%	30	3.6%	30	190	220	220	\$11.64	\$24,220	11
45-4011	Forest and Conservation Workers	210	0.0%	240	0.0%	30	17.1%	40	80	110	110	\$19.29	\$40,130	10
<b>47-0000</b>	<b>Construction and Extraction Occupations</b>	<b>136,110</b>	<b>3.9%</b>	<b>135,240</b>	<b>3.7%</b>	<b>-870</b>	<b>-0.6%</b>	<b>840</b>	<b>23,980</b>	<b>23,110</b>	<b>24,820</b>	<b>\$24.37</b>	<b>\$50,690</b>	
<b>47-1000</b>	<b>Supervisors, Construction and Extraction Workers</b>	<b>12,120</b>	<b>0.4%</b>	<b>12,040</b>	<b>0.3%</b>	<b>-80</b>	<b>-0.7%</b>	<b>0</b>	<b>1,690</b>	<b>1,610</b>	<b>1,690</b>			
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	12,120	0.4%	12,040	0.3%	-80	-0.7%	0	1,690	1,610	1,690	\$33.79	\$70,280	8
<b>47-2000</b>	<b>Construction Trades Workers</b>	<b>106,990</b>	<b>3.1%</b>	<b>105,940</b>	<b>2.9%</b>	<b>-1,050</b>	<b>-1.0%</b>	<b>270</b>	<b>18,440</b>	<b>17,390</b>	<b>18,710</b>			
47-2011	Boilermakers	170	0.0%	180	0.0%	10	4.6%	10	60	70	70	\$25.52	\$53,070	9
47-2022	Stonemasons	700	0.0%	700	0.0%	0	-0.1%	0	150	150	150	\$24.92	\$51,840	9
47-2031	Carpenters	29,140	0.8%	29,220	0.8%	80	0.3%	80	3,940	4,020	4,020	\$24.50	\$50,960	9
47-2042	Floor Layers, Except Carpet, Wood and Hard Tiles	480	0.0%	380	0.0%	-100	-19.9%	0	70	-30	70	\$23.50	\$48,890	10
47-2044	Tile and Marble Setters	690	0.0%	720	0.0%	30	4.0%	30	100	130	130	\$22.64	\$47,090	9
47-2051	Cement Masons and Concrete Finishers	1,620	0.0%	1,590	0.0%	-30	-1.3%	0	470	440	470	\$22.09	\$45,950	10

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
47-2061	Construction Laborers	17,620	0.5%	17,490	0.5%	-130	-0.7%	0	1,330	1,200	1,330	\$20.67	\$42,990	10
47-2071	Paving, Surfacing and Tamping Equip. Operators	1,030	0.0%	1,010	0.0%	-20	-1.7%	0	210	190	210	\$20.47	\$42,570	10
47-2072	Pile-Driver Operators	240	0.0%	230	0.0%	-10	-4.6%	0	50	40	50	\$32.98	\$68,600	10
47-2073	Operating Engineers and Other Construction Equip. Operators	5,180	0.2%	5,160	0.1%	-20	-0.4%	0	1,000	980	1,000	\$26.93	\$56,020	10
47-2081	Drywall and Ceiling Tile Installers	1,160	0.0%	1,110	0.0%	-50	-4.6%	0	160	110	160	\$23.81	\$49,530	10
47-2111	Electricians	14,420	0.4%	14,110	0.4%	-310	-2.2%	0	3,710	3,400	3,710	\$26.37	\$54,850	9
47-2121	Glaziers	960	0.0%	940	0.0%	-20	-1.8%	0	160	140	160	\$19.27	\$40,080	9
47-2131	Insulation Workers, Floor, Ceiling, and Wall	1,140	0.0%	1,090	0.0%	-50	-5.1%	0	260	210	260	\$17.54	\$36,490	10
47-2141	Painters, Construction and Maintenance	7,050	0.2%	7,170	0.2%	120	1.6%	110	1,250	1,370	1,370	\$18.38	\$38,230	10
47-2151	Pipelayers	530	0.0%	530	0.0%	0	-1.3%	0	110	110	110	\$21.75	\$45,240	10
47-2152	Plumbers, Pipefitters, and Steamfitters	11,650	0.3%	11,590	0.3%	-60	-0.6%	0	2,400	2,340	2,400	\$27.63	\$57,460	9
47-2161	Plasterers and Stucco Masons	470	0.0%	460	0.0%	-10	-3.6%	0	110	100	110	\$24.24	\$50,430	9
47-2181	Roofers	2,030	0.1%	2,070	0.1%	40	2.1%	40	460	500	510	\$24.56	\$51,080	10
47-2211	Sheet Metal Workers	4,290	0.1%	4,120	0.1%	-170	-4.0%	0	1,040	870	1,040	\$25.57	\$53,180	9
47-2221	Structural Iron and Steel Workers	1,290	0.0%	1,210	0.0%	-80	-6.4%	0	420	340	420	\$31.73	\$66,000	9
<b>47-3000</b>	<b>Helpers, Construction Trades</b>	<b>7,110</b>	<b>0.2%</b>	<b>6,880</b>	<b>0.2%</b>	<b>-230</b>	<b>-3.2%</b>	<b>20</b>	<b>1,800</b>	<b>1,570</b>	<b>1,820</b>			
47-3011	Helpers, Brickmasons, Blockmasons, Stonemasons and Tile and Marble Setters	1,180	0.0%	1,150	0.0%	-30	-2.2%	0	300	270	300	\$18.66	\$38,810	11
47-3012	Helpers, Carpenters	1,330	0.0%	1,320	0.0%	-10	-1.3%	0	340	330	340	\$15.81	\$32,890	11
47-3013	Helpers, Electricians	2,330	0.1%	2,180	0.1%	-150	-6.3%	0	590	440	590	\$15.19	\$31,590	11
47-3014	Helpers, Painters, Paperhangers, Plasterers and Stucco Masons	160	0.0%	140	0.0%	-20	-12.3%	0	40	20	40	\$12.27	\$25,530	11
47-3015	Helpers, Pipelayers, Plumbers, Pipefitters and Steamfitters	1,210	0.0%	1,190	0.0%	-20	-1.2%	0	310	290	310	\$14.42	\$29,990	11
47-3016	Helpers, Roofers	340	0.0%	320	0.0%	-20	-6.7%	0	90	70	90	\$14.96	\$31,120	11
47-3019	Helpers, Construction Trades, All Other	550	0.0%	570	0.0%	20	3.8%	20	140	160	160	\$11.94	\$24,830	11
47-4011	Construction and Building Inspectors	2,790	0.1%	3,060	0.1%	270	9.8%	270	520	790	790	\$23.39	\$48,640	8
47-4021	Elevator Installers and Repairers	620	0.0%	600	0.0%	-20	-3.2%	0	170	150	170	\$35.35	\$73,520	9
47-4031	Fence Erectors	680	0.0%	660	0.0%	-20	-2.8%	0	140	120	140	\$15.74	\$32,740	10

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
47-4041	Hazardous Materials Removal Workers	1,030	0.0%	1,130	0.0%	100	8.9%	90	220	320	310	\$18.01	\$37,470	10
47-4051	Highway Maintenance Workers	2,700	0.1%	2,810	0.1%	110	4.2%	110	490	600	610	\$19.22	\$39,990	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	610	0.0%	650	0.0%	40	6.6%	40	120	160	160	\$18.61	\$38,700	10
47-5021	Earth Drillers, Except Oil and Gas	240	0.0%	230	0.0%	-10	-4.6%	0	80	70	80	\$20.72	\$43,100	10
<b>49-0000</b>	<b>Installation, Maintenance, and Repair Occupations</b>	<b>109,260</b>	<b>3.2%</b>	<b>110,670</b>	<b>3.0%</b>	<b>1,410</b>	<b>1.3%</b>	<b>2,840</b>	<b>18,220</b>	<b>19,630</b>	<b>21,060</b>	<b>\$21.83</b>	<b>\$45,400</b>	
<b>49-1000</b>	<b>Supervisors of Installation, Maintenance and Repair Workers</b>	<b>8,430</b>	<b>0.2%</b>	<b>8,410</b>	<b>0.2%</b>	<b>-20</b>	<b>-0.3%</b>	<b>0</b>	<b>1,980</b>	<b>1,960</b>	<b>1,980</b>			
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	8,430	0.2%	8,410	0.2%	-20	-0.3%	0	1,980	1,960	1,980	\$30.10	\$62,610	8
<b>49-2000</b>	<b>Electrical and Electronic Equip. Mechanics, Installers, and Repairers</b>	<b>13,770</b>	<b>0.4%</b>	<b>13,890</b>	<b>0.4%</b>	<b>120</b>	<b>0.9%</b>	<b>330</b>	<b>3,040</b>	<b>3,160</b>	<b>3,370</b>			
49-2011	Computer, Automated Teller and Office Machine Repairers	3,210	0.1%	3,180	0.1%	-30	-1.0%	0	370	340	370	\$20.18	\$41,980	7
49-2022	Telecommunications Equip. Installers and Repairers, Exc. Line Installers	4,870	0.1%	4,960	0.1%	90	1.9%	90	1,200	1,290	1,290	\$28.73	\$59,770	7
49-2091	Avionics Technicians	140	0.0%	150	0.0%	10	9.4%	10	10	20	30	\$25.24	\$52,500	7
49-2092	Electric Motor, Power Tool and Related Repairers	520	0.0%	470	0.0%	-50	-8.7%	0	200	150	200	\$19.30	\$40,150	7
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	200	0.0%	220	0.0%	20	12.2%	20	40	60	70	\$14.89	\$30,970	7
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,830	0.1%	1,910	0.1%	80	4.4%	80	620	700	700	\$25.27	\$52,550	7
49-2096	Electronic Equip. Installers and Repairers, Motor Vehicles	250	0.0%	250	0.0%	0	0.8%	0	80	80	80	\$14.76	\$30,700	7
49-2097	Electronic Home Entertainment Equip. Installers and Repairers	680	0.0%	630	0.0%	-50	-8.5%	0	60	10	60	\$17.51	\$36,420	7
49-2098	Security and Fire Alarm Systems Installers	1,130	0.0%	1,260	0.0%	130	10.7%	120	150	280	270	\$22.50	\$46,810	7
<b>49-3000</b>	<b>Vehicle and Mobile Equip. Mechanics, Installers</b>	<b>32,400</b>	<b>0.9%</b>	<b>33,470</b>	<b>0.9%</b>	<b>1,070</b>	<b>3.3%</b>	<b>1,130</b>	<b>6,690</b>	<b>7,760</b>	<b>7,820</b>			
49-3011	Aircraft Mechanics and Service Technicians	1,170	0.0%	1,150	0.0%	-20	-1.6%	0	120	100	120	\$26.90	\$55,940	7
49-3021	Automotive Body and Related Repairers	4,570	0.1%	4,690	0.1%	120	2.6%	120	1,080	1,200	1,200	\$20.68	\$43,020	9

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
49-3022	Automotive Glass Installers and Repairers	500	0.0%	540	0.0%	40	7.9%	40	180	220	220	\$18.49	\$38,460	9
49-3023	Automotive Service Technicians and Mechanics	16,640	0.5%	17,120	0.5%	480	2.9%	470	3,340	3,820	3,810	\$19.28	\$40,100	7
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,280	0.1%	4,520	0.1%	240	5.7%	250	930	1,170	1,180	\$20.71	\$43,080	7
49-3041	Farm Equipment Mechanics	210	0.0%	190	0.0%	-20	-8.5%	0	40	20	40	\$13.53	\$28,130	9
49-3042	Mobile Heavy Equip. Mechanics, Exc. Engines	1,700	0.0%	1,740	0.0%	40	2.3%	40	330	370	370	\$23.01	\$47,860	9
49-3051	Motorboat Mechanics	920	0.0%	1,010	0.0%	90	10.3%	90	180	270	280	\$20.29	\$42,210	9
49-3052	Motorcycle Mechanics	340	0.0%	330	0.0%	-10	-2.4%	0	70	60	70	\$16.24	\$33,770	9
49-3053	Outdoor Power Equip. and Other Small Engine Mechanics	430	0.0%	420	0.0%	-10	-3.5%	0	90	80	90	\$15.58	\$32,410	10
49-3092	Recreational Vehicle Service Technicians	250	0.0%	260	0.0%	10	4.9%	10	50	60	60	\$15.83	\$32,930	9
49-3093	Tire Repairers and Changers	1,160	0.0%	1,250	0.0%	90	8.3%	100	230	320	330	\$10.84	\$22,540	11
<b>49-9000</b>	<b>Other Installation, Maintenance and Repair Occupations</b>	<b>54,660</b>	<b>1.6%</b>	<b>54,900</b>	<b>1.5%</b>	<b>240</b>	<b>0.4%</b>	<b>1,370</b>	<b>6,510</b>	<b>6,750</b>	<b>7,890</b>			
49-9012	Control and Valve Installers and Repairers, Exc. Mechanical Door	410	0.0%	410	0.0%	0	0.7%	0	70	70	70	\$24.34	\$50,620	10
49-9021	Heating, Air Condition. and Refrig. Mechanics and Installers	7,090	0.2%	6,790	0.2%	-300	-4.3%	0	1,240	940	1,240	\$24.65	\$51,260	9
49-9031	Home Appliance Repairers	980	0.0%	960	0.0%	-20	-2.2%	0	220	200	220	\$17.60	\$36,600	9
49-9041	Industrial Machinery Mechanics	3,550	0.1%	3,690	0.1%	140	4.0%	140	590	730	730	\$22.84	\$47,510	9
49-9042	Maintenance and Repair Workers, General	24,610	0.7%	25,380	0.7%	770	3.2%	780	610	1,380	1,380	\$19.09	\$39,710	10
49-9043	Maintenance Workers, Machinery	1,370	0.0%	1,290	0.0%	-80	-5.7%	0	220	140	220	\$19.30	\$40,130	10
49-9044	Millwrights	550	0.0%	540	0.0%	-10	-1.5%	0	70	60	70	\$21.59	\$44,910	9
49-9051	Electrical Power-Line Installers and Repairers	1,700	0.0%	1,720	0.0%	20	1.0%	20	540	560	550	\$30.71	\$63,880	9
49-9052	Telecommunications Line Installers and Repairers	4,660	0.1%	4,090	0.1%	-570	-12.2%	0	1,210	640	1,210	\$28.17	\$58,590	9
49-9061	Camera and Photographic Equipment Repairers	240	0.0%	190	0.0%	-50	-20.6%	0	70	20	70	\$17.99	\$37,410	10
49-9062	Medical Equipment Repairers	1,300	0.0%	1,560	0.0%	260	20.2%	260	360	620	620	\$19.43	\$40,420	6

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
49-9063	Musical Instrument Repairers and Tuners	200	0.0%	200	0.0%	0	-3.0%	0	60	60	60	\$19.60	\$40,760	9
49-9069	Precision Instrument and Equip. Repairers, All Other	200	0.0%	210	0.0%	10	6.0%	10	60	70	70	\$21.37	\$44,450	10
49-9091	Coin, Vending and Amusement Machine Servicers and Repairers	630	0.0%	560	0.0%	-70	-11.0%	0	170	100	170	\$17.07	\$35,510	10
49-9094	Locksmiths and Safe Repairers	580	0.0%	670	0.0%	90	15.8%	90	110	200	200	\$19.12	\$39,780	10
49-9096	Riggers	340	0.0%	320	0.0%	-20	-5.6%	0	20	0	20	\$21.67	\$45,070	11
49-9097	Signal and Track Switch Repairers	130	0.0%	130	0.0%	0	-2.3%	0	10	10	10	\$23.26	\$48,370	10
49-9098	Helpers, Installation, Maintenance and Repair Workers	2,410	0.1%	2,440	0.1%	30	1.2%	30	570	600	590	\$13.25	\$27,570	11
49-9099	Installation, Maint. and Repair Workers, All Other	3,070	0.1%	3,100	0.1%	30	0.8%	30	200	230	220	\$19.55	\$40,670	10
<b>51-0000</b>	<b>Production Occupations</b>	<b>181,530</b>	<b>5.3%</b>	<b>162,480</b>	<b>4.4%</b>	<b>-19,050</b>	<b>-10.5%</b>	<b>1,350</b>	<b>35,660</b>	<b>16,610</b>	<b>37,010</b>	<b>\$16.43</b>	<b>\$34,170</b>	
<b>51-1000</b>	<b>Supervisors, Production Workers</b>	<b>13,590</b>	<b>0.4%</b>	<b>12,350</b>	<b>0.3%</b>	<b>-1,240</b>	<b>-9.1%</b>	<b>0</b>	<b>2,270</b>	<b>1,030</b>	<b>2,270</b>			
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	13,590	0.4%	12,350	0.3%	-1,240	-9.1%	0	2,270	1,030	2,270	\$26.79	\$55,720	8
51-2021	Coil Winders, Tapers, and Finishers	450	0.0%	300	0.0%	-150	-32.6%	0	80	-70	80	\$14.87	\$30,930	11
51-2022	Electrical and Electronic Equipment Assemblers	7,300	0.2%	5,310	0.1%	-1,990	-27.3%	0	1,240	-750	1,240	\$15.52	\$32,290	11
51-2023	Electromechanical Equipment Assemblers	3,220	0.1%	2,950	0.1%	-270	-8.4%	0	550	280	550	\$15.31	\$31,850	11
51-2031	Engine and Other Machine Assemblers	580	0.0%	520	0.0%	-60	-10.2%	0	140	80	140	\$17.69	\$36,800	11
51-2041	Structural Metal Fabricators and Fitters	1,590	0.0%	1,470	0.0%	-120	-7.1%	0	270	150	270	\$18.04	\$37,520	10
51-2091	Fiberglass Laminators and Fabricators	190	0.0%	190	0.0%	0	1.1%	0	40	40	40	\$14.89	\$30,970	10
51-2092	Team Assemblers	15,990	0.5%	15,380	0.4%	-610	-3.9%	0	3,320	2,710	3,320	\$13.40	\$27,870	10
51-2099	Assemblers and Fabricators, All Other	4,780	0.1%	4,110	0.1%	-670	-14.0%	0	990	320	990	\$12.50	\$26,000	10
<b>51-3000</b>	<b>Food Processing Workers</b>	<b>10,710</b>	<b>0.3%</b>	<b>11,490</b>	<b>0.3%</b>	<b>780</b>	<b>7.3%</b>	<b>840</b>	<b>2,860</b>	<b>3,640</b>	<b>3,700</b>			
51-3011	Bakers	4,060	0.1%	4,400	0.1%	340	8.4%	340	860	1,200	1,200	\$12.77	\$26,560	9
51-3021	Butchers and Meat Cutters	1,330	0.0%	1,320	0.0%	-10	-1.0%	0	420	410	420	\$18.05	\$37,540	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,850	0.1%	2,020	0.1%	170	9.4%	170	580	750	760	\$14.23	\$29,590	11
51-3023	Slaughterers and Meat Packers	360	0.0%	400	0.0%	40	12.1%	40	110	150	160	\$15.03	\$31,270	10

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
51-3091	Food and Tobacco Roasting, Baking and Drying Machine Operators and Tenders	200	0.0%	220	0.0%	20	11.6%	20	70	90	100	\$14.43	\$30,010	11
51-3092	Food Batchmakers	2,410	0.1%	2,670	0.1%	260	10.8%	260	610	870	880	\$13.41	\$27,890	11
51-3093	Food Cooking Machine Operators and Tenders	510	0.0%	470	0.0%	-40	-8.4%	0	200	160	200	\$11.66	\$24,250	11
<b>51-4000</b>	<b>Metal Workers and Plastic Workers</b>	<b>38,510</b>	<b>1.1%</b>	<b>33,260</b>	<b>0.9%</b>	<b>-5,250</b>	<b>-13.6%</b>	<b>20</b>	<b>7,270</b>	<b>2,020</b>	<b>7,290</b>			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3,170	0.1%	2,890	0.1%	-280	-8.8%	0	380	100	380	\$18.33	\$38,120	10
51-4012	Numerical Tool and Process Control Programmers	370	0.0%	300	0.0%	-70	-19.3%	0	40	-30	40	\$23.78	\$49,460	8
51-4021	Extruding and Drawing Machine Setters/Operators/Tenders, Metal and Plastic	1,750	0.1%	1,530	0.0%	-220	-12.7%	0	480	260	480	\$15.55	\$32,350	10
51-4022	Forging Machine Setters/Operators/Tenders, Metal and Plastic	460	0.0%	280	0.0%	-180	-38.9%	0	150	-30	150	\$16.14	\$33,570	10
51-4023	Rolling Machine Setters/Operators/Tenders, Metal and Plastic	410	0.0%	330	0.0%	-80	-19.3%	0	90	10	90	\$14.87	\$30,920	10
51-4031	Cutting, Punching and Press Machine Setters/Operators/Tenders, Metal and Plastic	3,880	0.1%	3,060	0.1%	-820	-21.0%	0	930	110	930	\$15.06	\$31,330	10
51-4032	Drilling and Boring Machine Tool Setters/Operators/Tenders, Metal and Plastic	520	0.0%	400	0.0%	-120	-23.8%	0	110	-10	110	\$19.38	\$40,310	10
51-4033	Grind., Lapping, Polish.and Buff. Mach.Tool Setters/Operators/ Tenders, Metal and Plastic	2,090	0.1%	1,680	0.0%	-410	-19.6%	0	210	-200	210	\$16.04	\$33,360	10
51-4034	Lathe and Turning Machine Tool Setters/Operators/Tenders, Metal and Plastic	1,380	0.0%	1,050	0.0%	-330	-24.4%	0	270	-60	270	\$18.11	\$37,680	10
51-4035	Milling and Planing Machine Setters/Operators/Tenders, Metal and Plastic	890	0.0%	690	0.0%	-200	-22.3%	0	90	-110	90	\$18.84	\$39,180	10
51-4041	Machinists	8,090	0.2%	7,300	0.2%	-790	-9.7%	0	1,250	460	1,250	\$19.72	\$41,010	9
51-4051	Metal-Refining Furnace Operators and Tenders	130	0.0%	100	0.0%	-30	-22.1%	0	20	-10	20	\$19.28	\$40,100	10
51-4061	Model Makers, Metal and Plastic	200	0.0%	170	0.0%	-30	-11.2%	0	50	20	50	\$21.88	\$45,510	9
51-4071	Foundry Mold and Coremakers	170	0.0%	130	0.0%	-40	-22.5%	0	40	0	40	\$17.22	\$35,820	10
51-4072	Molding,Coremaking and Cast.Machine Setters/Operators/ Tenders, Metal and Plastic	3,230	0.1%	2,710	0.1%	-520	-16.0%	0	760	240	760	\$15.07	\$31,350	10

## Section 2

### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
51-4081	Multiple Machine Tool Setters/Operators/Tenders, Metal and Plastic	1,490	0.0%	1,480	0.0%	-10	-1.0%	0	300	290	300	\$15.98	\$33,240	10
51-4111	Tool and Die Makers	1,470	0.0%	1,260	0.0%	-210	-14.2%	0	200	-10	200	\$21.85	\$45,440	9
51-4121	Welders, Cutters, Solderers, and Brazers	4,200	0.1%	4,060	0.1%	-140	-3.3%	0	890	750	890	\$19.68	\$40,930	7
51-4122	Welding, Soldering and Brazing Machine Setters/Operators and Tenders	740	0.0%	760	0.0%	20	2.8%	20	160	180	180	\$18.19	\$37,840	7
51-4191	Heat Treating Equip. Setters/Operators /Tenders, Metal and Plastic	570	0.0%	500	0.0%	-70	-13.6%	0	100	30	100	\$15.45	\$32,140	10
51-4193	Plating and Coating Machine Setters/Operators/Tenders, Metal and Plastic	1,810	0.1%	1,510	0.0%	-300	-17.0%	0	540	240	540	\$16.43	\$34,170	10
51-4194	Tool Grinders, Filers, and Sharpeners	810	0.0%	580	0.0%	-230	-28.0%	0	140	-90	140	\$15.33	\$31,880	10
51-4199	Metal Workers and Plastic Workers, All Other	400	0.0%	270	0.0%	-130	-33.2%	0	60	-70	60	\$16.93	\$35,210	10
<b>51-5000</b>	<b>Printing Workers</b>	<b>9,890</b>	<b>0.3%</b>	<b>8,550</b>	<b>0.2%</b>	<b>-1,340</b>	<b>-13.5%</b>	<b>0</b>	<b>1,790</b>	<b>450</b>	<b>1,790</b>			
51-5011	Bindery Workers	1,680	0.0%	1,220	0.0%	-460	-27.5%	0	240	-220	240	\$15.67	\$32,600	11
51-5012	Bookbinders	380	0.0%	340	0.0%	-40	-10.3%	0	50	10	50	\$11.85	\$24,650	10
51-5021	Job Printers	920	0.0%	830	0.0%	-90	-10.1%	0	90	0	90	\$18.33	\$38,120	9
51-5022	Prepress Technicians and Workers	1,900	0.1%	1,520	0.0%	-380	-20.0%	0	300	-80	300	\$17.40	\$36,180	7
51-5023	Printing Machine Operators	5,010	0.1%	4,650	0.1%	-360	-7.2%	0	1,110	750	1,110	\$17.30	\$35,980	10
<b>51-6000</b>	<b>Textile, Apparel, and Furnishings Workers</b>	<b>16,640</b>	<b>0.5%</b>	<b>14,170</b>	<b>0.4%</b>	<b>-2,470</b>	<b>-14.8%</b>	<b>0</b>	<b>2,900</b>	<b>430</b>	<b>2,900</b>			
51-6011	Laundry and Dry-Cleaning Workers	5,890	0.2%	5,870	0.2%	-20	-0.3%	0	1,320	1,300	1,320	\$10.38	\$21,590	10
51-6021	Pressers, Textile, Garment and Related Materials	1,050	0.0%	850	0.0%	-200	-19.1%	0	80	-120	80	\$10.84	\$22,550	11
51-6031	Sewing Machine Operators	3,990	0.1%	2,980	0.1%	-1,010	-25.3%	0	390	-620	390	\$11.48	\$23,890	10
51-6041	Shoe and Leather Workers and Repairers	270	0.0%	260	0.0%	-10	-3.4%	0	60	50	60	\$12.84	\$26,700	9
51-6042	Shoe Machine Operators and Tenders	120	0.0%	80	0.0%	-40	-33.9%	0	10	-30	10	\$13.53	\$28,140	10
51-6051	Sewers, Hand	670	0.0%	520	0.0%	-150	-22.5%	0	110	-40	110	\$10.61	\$22,070	11
51-6052	Tailors, Dressmakers, and Custom Sewers	1,150	0.0%	1,010	0.0%	-140	-12.7%	0	190	50	190	\$11.91	\$24,770	9
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	400	0.0%	290	0.0%	-110	-26.8%	0	60	-50	60	\$13.40	\$27,870	10

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
51-6062	Textile Cutting Machine Setters, Operators and Tenders	370	0.0%	260	0.0%	-110	-30.2%	0	120	10	120	\$12.80	\$26,630	10
51-6063	Textile Knitting and Weaving Machine Setters/Operators and Tenders	640	0.0%	450	0.0%	-190	-29.2%	0	180	-10	180	\$12.57	\$26,150	9
51-6064	Textile Winding, Twisting and Draw. Out Machine Setters, Operators and Tenders	820	0.0%	620	0.0%	-200	-24.5%	0	120	-80	120	\$11.72	\$24,370	10
51-6091	Extruding and Form.Machine Setters/ Operators/Tenders, Synthetic and Glass Fibers	340	0.0%	260	0.0%	-80	-22.4%	0	70	-10	70	\$17.39	\$36,160	10
51-6092	Fabric and Apparel Patternmakers	120	0.0%	100	0.0%	-20	-13.4%	0	20	0	20	\$18.87	\$39,250	9
51-6093	Upholsters	330	0.0%	300	0.0%	-30	-9.4%	0	50	20	50	\$16.54	\$34,390	9
51-6099	Textile, Apparel and Furnishings Workers, All Other	500	0.0%	330	0.0%	-170	-33.5%	0	120	-50	120	\$13.29	\$27,650	11
<b>51-7000</b>	<b>Woodworkers</b>	<b>3,860</b>	<b>0.1%</b>	<b>3,680</b>	<b>0.1%</b>	<b>-180</b>	<b>-4.7%</b>	<b>30</b>	<b>1,020</b>	<b>840</b>	<b>1,050</b>			
51-7011	Cabinetmakers and Bench Carpenters	2,320	0.1%	2,230	0.1%	-90	-4.1%	0	690	600	690	\$16.84	\$35,030	9
51-7021	Furniture Finishers	520	0.0%	500	0.0%	-20	-3.5%	0	90	70	90	\$15.20	\$31,610	9
51-7041	Sawing Machine Setters/Oper./Tenders, Wood	140	0.0%	140	0.0%	0	-0.7%	0	30	30	30	\$14.57	\$30,300	10
51-7042	Woodworking Machine Setters/Operators and Tenders, Exc. Sawing	590	0.0%	620	0.0%	30	5.1%	30	150	180	180	\$14.90	\$31,000	10
<b>51-8000</b>	<b>Plant and System Operators</b>	<b>4,970</b>	<b>0.1%</b>	<b>5,020</b>	<b>0.1%</b>	<b>50</b>	<b>1.1%</b>	<b>160</b>	<b>1,090</b>	<b>1,140</b>	<b>1,250</b>			
51-8021	Stationary Engineers and Boiler Operators	1,440	0.0%	1,430	0.0%	-10	-0.4%	0	240	230	240	\$23.58	\$49,050	9
51-8031	Water and Liquid Waste Treatment Plant and System Operators	1,810	0.1%	1,960	0.1%	150	8.6%	160	320	470	470	\$20.81	\$43,280	9
51-8091	Chemical Plant and System Operators	380	0.0%	350	0.0%	-30	-9.4%	0	110	80	110	\$23.00	\$47,850	9
51-9011	Chemical Equipment Operators and Tenders	820	0.0%	910	0.0%	90	11.8%	100	190	280	280	\$19.67	\$40,910	10
51-9012	Separating, Filter., Clarify., Precipitat. and Still Machine Setters/Operators and Tenders	430	0.0%	430	0.0%	0	0.2%	0	100	100	100	\$20.87	\$43,400	10
51-9021	Crushing, Grinding and Polishing Machine Setters/Operators and Tenders	580	0.0%	470	0.0%	-110	-19.2%	0	100	-10	100	\$17.28	\$35,950	10
51-9022	Grinding and Polishing Workers, Hand	510	0.0%	430	0.0%	-80	-14.8%	0	80	0	80	\$13.63	\$28,360	10

## Section 2

# Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
51-9023	Mixing and Blending Machine Setters/Operators and Tenders	1,820	0.1%	1,680	0.0%	-140	-7.9%	0	300	160	300	\$16.77	\$34,870	10
51-9031	Cutters and Trimmers, Hand	510	0.0%	430	0.0%	-80	-15.4%	0	80	0	80	\$12.15	\$25,270	11
51-9032	Cutting and Slicing Machine Setters, Operators and Tenders	1,990	0.1%	1,690	0.0%	-300	-15.1%	0	300	0	300	\$15.49	\$32,220	10
51-9041	Extruding, Forming, Pressing and Compact. Machine Setters, Operators and Tenders	2,000	0.1%	1,660	0.0%	-340	-17.0%	0	370	30	370	\$14.63	\$30,440	10
51-9051	Furnace, Kiln, Oven, Drier, Kettle Operators and Tenders	150	0.0%	140	0.0%	-10	-7.3%	0	40	30	40	\$17.39	\$36,170	10
51-9061	Inspectors, Testers, Sorters, Samplers and Weighers	9,190	0.3%	8,030	0.2%	-1,160	-12.6%	0	1,360	200	1,360	\$18.49	\$38,450	10
51-9071	Jewelers and Precious Stone and Metal Workers	1,430	0.0%	1,320	0.0%	-110	-7.2%	0	250	140	250	\$16.15	\$33,580	7
51-9081	Dental Laboratory Technicians	850	0.0%	890	0.0%	40	4.2%	40	160	200	200	\$18.85	\$39,210	9
51-9082	Medical Appliance Technicians	350	0.0%	370	0.0%	20	6.0%	20	70	90	90	\$21.03	\$43,740	9
51-9083	Ophthalmic Laboratory Technicians	910	0.0%	890	0.0%	-20	-1.8%	0	170	150	170	\$14.20	\$29,540	10
51-9111	Packaging and Filling Machine Oper. and Tenders	5,670	0.2%	5,200	0.1%	-470	-8.3%	0	1,050	580	1,050	\$12.11	\$25,190	11
51-9121	Coating, Painting and Spraying Machine Setters/Operators and Tenders	2,190	0.1%	1,820	0.0%	-370	-16.9%	0	430	60	430	\$15.19	\$31,600	10
51-9122	Painters, Transportation Equipment	490	0.0%	510	0.0%	20	4.7%	20	100	120	120	\$19.25	\$40,030	10
51-9123	Painting, Coating, and Decorating Workers	660	0.0%	620	0.0%	-40	-5.6%	0	130	90	130	\$14.80	\$30,790	11
51-9131	Photographic Process Workers	300	0.0%	170	0.0%	-130	-41.6%	0	100	-30	100	\$12.45	\$25,890	10
51-9132	Photographic Processing Machine Operators	1,280	0.0%	610	0.0%	-670	-52.8%	0	440	-230	440	\$10.66	\$22,170	11
51-9141	Semiconductor Processors	560	0.0%	480	0.0%	-80	-14.3%	0	100	20	100	\$19.96	\$41,510	6
51-9191	Cementing and Gluing Machine Oper. and Tenders	460	0.0%	340	0.0%	-120	-26.3%	0	120	0	120	\$14.95	\$31,090	10
51-9192	Cleaning, Washing and Metal Pickling Equip. Operators and Tenders	410	0.0%	380	0.0%	-30	-8.7%	0	120	90	120	\$10.97	\$22,820	10
51-9194	Etchers and Engravers	370	0.0%	320	0.0%	-50	-14.1%	0	70	20	70	\$15.72	\$32,710	9
51-9195	Molders, Shapers and Casters, Exc. Metal and Plastic	1,090	0.0%	1,040	0.0%	-50	-4.3%	0	240	190	240	\$15.99	\$33,260	10

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### Massachusetts Employment by Occupation and Education and Training, Current and Projected, 2016 (continued)

Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
51-9196	Paper Goods Machine Setters, Oper. and Tenders	2,970	0.1%	2,110	0.1%	-860	-29.0%	0	720	-140	720	\$16.07	\$33,420	10
51-9198	Helpers, Production Workers	8,030	0.2%	7,500	0.2%	-530	-6.6%	0	1,970	1,440	1,970	\$11.48	\$23,880	11
51-9199	Production Workers, All Other	2,040	0.1%	1,940	0.1%	-100	-4.9%	0	420	320	420	\$16.28	\$33,860	10
<b>53-0000</b>	<b>Transportation and Material Moving Occupations</b>	<b>173,300</b>	<b>5.0%</b>	<b>172,360</b>	<b>4.7%</b>	<b>-940</b>	<b>-0.5%</b>	<b>4,750</b>	<b>38,140</b>	<b>37,200</b>	<b>42,890</b>	<b>\$15.91</b>	<b>\$33,090</b>	
<b>53-1000</b>	<b>Supervisors, Transportation and Material Moving Workers</b>	<b>7,050</b>	<b>0.2%</b>	<b>7,430</b>	<b>0.2%</b>	<b>380</b>	<b>5.5%</b>	<b>390</b>	<b>1,440</b>	<b>1,820</b>	<b>1,820</b>			
53-1031	First-Line Supervs/Managers of Transp.and Material-Mov.Machinery and Veh. Operators	3,640	0.1%	3,830	0.1%	190	5.2%	190	740	930	930	\$27.43	\$57,050	8
<b>53-2000</b>	<b>Air Transportation Workers</b>	<b>1,520</b>	<b>0.0%</b>	<b>1,670</b>	<b>0.0%</b>	<b>150</b>	<b>9.9%</b>	<b>150</b>	<b>440</b>	<b>590</b>	<b>590</b>			
<b>53-3000</b>	<b>Motor Vehicle Operators</b>	<b>76,980</b>	<b>2.2%</b>	<b>79,820</b>	<b>2.2%</b>	<b>2,840</b>	<b>3.7%</b>	<b>3,300</b>	<b>12,670</b>	<b>15,510</b>	<b>15,970</b>			
53-3011	Ambulance Drivers and Attendants, Exc. E.M.T's	820	0.0%	990	0.0%	170	20.6%	170	110	280	270	\$11.57	\$24,070	10
53-3021	Bus Drivers, Transit and Intercity	2,500	0.1%	2,740	0.1%	240	9.9%	250	330	570	570	\$15.39	\$32,020	10
53-3022	Bus Drivers, School	10,040	0.3%	10,850	0.3%	810	8.1%	810	1,320	2,130	2,130	\$14.20	\$29,530	10
53-3031	Driver/Sales Workers	6,990	0.2%	6,520	0.2%	-470	-6.7%	0	1,240	770	1,240	\$16.28	\$33,870	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	27,190	0.8%	28,200	0.8%	1,010	3.7%	1,010	4,820	5,830	5,830	\$20.18	\$41,980	10
53-3033	Truck Drivers, Light or Delivery Services	21,190	0.6%	21,540	0.6%	350	1.7%	360	3,760	4,110	4,110	\$16.04	\$33,370	11
53-3041	Taxi Drivers and Chauffeurs	7,100	0.2%	7,720	0.2%	620	8.6%	610	920	1,540	1,530	\$12.52	\$26,050	11
53-3099	Motor Vehicle Operators, All Other	1,170	0.0%	1,270	0.0%	100	8.9%	100	180	280	290	\$13.93	\$28,960	11
<b>53-4000</b>	<b>Rail Transportation Workers</b>	<b>1,090</b>	<b>0.0%</b>	<b>1,200</b>	<b>0.0%</b>	<b>110</b>	<b>9.9%</b>	<b>130</b>	<b>390</b>	<b>500</b>	<b>520</b>			
53-4011	Locomotive Engineers	310	0.0%	350	0.0%	40	13.7%	40	90	130	140	\$28.07	\$58,380	10
53-4021	Railroad Brake, Signal and Switch Operators	190	0.0%	170	0.0%	-20	-9.5%	0	70	50	70	\$21.25	\$44,190	10
<b>53-5000</b>	<b>Water Transportation Workers</b>	<b>1,370</b>	<b>0.0%</b>	<b>1,620</b>	<b>0.0%</b>	<b>250</b>	<b>18.1%</b>	<b>250</b>	<b>400</b>	<b>650</b>	<b>650</b>			
53-5011	Sailors and Marine Oilers	380	0.0%	450	0.0%	70	18.6%	70	130	200	200	\$16.97	\$35,300	11
53-5031	Ship Engineers	140	0.0%	160	0.0%	20	13.7%	20	40	60	60	\$27.59	\$57,390	8
<b>53-6000</b>	<b>Other Transportation Workers</b>	<b>7,170</b>	<b>0.2%</b>	<b>7,010</b>	<b>0.2%</b>	<b>-160</b>	<b>-2.2%</b>	<b>200</b>	<b>2,490</b>	<b>2,330</b>	<b>2,700</b>			
53-6021	Parking Lot Attendants	3,320	0.1%	3,420	0.1%	100	3.1%	100	910	1,010	1,010	\$10.46	\$21,750	11

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Code	Occupational Title*	2006 Jobs**		2016 Jobs**		Net Change	Percent Change	New Jobs#	Replacement Openings~	Total Job Openings		2007 Average Wage		Education /Training Level****
		Number	Percent	Number	Percent					Net^	Total ***	Hourly	Annual	
53-6031	Service Station Attendants	3,010	0.1%	2,660	0.1%	-350	-11.7%	0	1,380	1,030	1,380	\$9.97	\$20,740	11
53-6099	Transportation Workers, All Other	320	0.0%	340	0.0%	20	7.6%	20	60	80	80	\$18.86	\$39,230	11
<b>53-7000</b>	<b>Material Moving Workers</b>	<b>78,120</b>	<b>2.3%</b>	<b>73,600</b>	<b>2.0%</b>	<b>-4,520</b>	<b>-5.8%</b>	<b>330</b>	<b>20,320</b>	<b>15,800</b>	<b>20,640</b>			
53-7011	Conveyor Operators and Tenders	590	0.0%	540	0.0%	-50	-8.4%	0	100	50	100	\$14.79	\$30,760	11
53-7021	Crane and Tower Operators	290	0.0%	300	0.0%	10	1.7%	10	50	60	60	\$27.55	\$57,300	9
53-7032	Excavating and Loading Machine and Dragline Oper.	1,090	0.0%	1,090	0.0%	0	0.3%	0	170	170	180	\$22.92	\$47,660	10
53-7051	Industrial Truck and Tractor Operators	7,680	0.2%	7,360	0.2%	-320	-4.1%	0	1,940	1,620	1,940	\$15.60	\$32,440	11
53-7061	Cleaners of Vehicles and Equipment	4,690	0.1%	4,910	0.1%	220	4.7%	220	1,790	2,010	2,010	\$11.63	\$24,190	11
53-7062	Laborers and Freight, Stock and Material Movers, Hand	39,990	1.2%	38,570	1.1%	-1,420	-3.5%	0	12,800	11,380	12,800	\$13.23	\$27,520	11
53-7063	Machine Feeders and Offbearers	2,070	0.1%	1,540	0.0%	-530	-25.6%	0	370	-160	370	\$13.00	\$27,040	11
53-7064	Packers and Packagers, Hand	18,330	0.5%	15,830	0.4%	-2,500	-13.6%	0	2,240	-260	2,240	\$10.30	\$21,420	11
53-7072	Pump Operators, Except Wellhead Pumpers	180	0.0%	160	0.0%	-20	-11.9%	0	70	50	70	\$21.73	\$45,190	10
53-7081	Refuse and Recyclable Material Collectors	2,000	0.1%	2,080	0.1%	80	4.0%	80	540	620	620	\$16.79	\$34,920	11
53-7121	Tank Car, Truck and Ship Loaders	130	0.0%	140	0.0%	10	5.3%	10	20	30	30	\$14.11	\$29,340	10

\* Listed for only those occupations providing 100 or more jobs

\*\* Includes self-employed

# Represents positive employment change only. If employment change is negative, new jobs is 0.

~ Represents the number of job openings expected to arise from the need to replace workers who retire or move up the career ladder

^ Represents the sum of net change and replacements

\*\*\* Represents the sum of new jobs and replacements. If employment change is negative, job openings due to growth are zero and total job openings equal replacements.

\*\*\*\* Education and Training Level

1. First Professional Degree
2. Doctorate
3. Master's Degree
4. Work Experience, plus a Bachelor's Degree or Higher
5. Bachelor's Degree
6. Associate's Degree
7. Postsecondary Vocational Training
8. Work Experience in a Related Occupation
9. Long-Term On-the-Job Training (1 or more years)
10. Moderate-Term On-the-Job Training (1 to 12 months)
11. Short-Term On-the-Job Training (1 to 4 weeks)



Commonwealth of Massachusetts  
Executive Office of Labor and  
Workforce Development  
Suzanne M. Bump, Secretary