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Occupational Employment and Wages in Boston-Cambridge-Nashua — May 2018

Workers in the Boston-Cambridge-Nashua Metropolitan Statistical Area had an average (mean) hourly wage of \$32.39 in May 2018, about 30 percent above the nationwide average of \$24.98, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Deborah A. Brown noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 21 of the 22 major occupational groups, including legal; healthcare practitioners and technical; and management.

When compared to the nationwide distribution, local employment was more highly concentrated in 11 of the 22 occupational groups, including management; computer and mathematical; and business and financial operations. Conversely, 10 groups had employment shares significantly below their national representation, including production; transportation and material moving; and installation, maintenance, and repair. (See [table A](#) and [box note](#) at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Boston-Cambridge-Nashua Metropolitan Statistical Area, and measures of statistical significance, May 2018

Major occupational group	Percent of total employment		Mean hourly wage		
	United States	Boston	United States	Boston	Percent difference (1)
Total, all occupations	100.0	100.0	\$24.98	\$32.39*	30
Management	5.3	8.9*	58.44	67.45*	15
Business and financial operations	5.3	6.4*	36.98	42.52*	15
Computer and mathematical	3.0	4.8*	44.01	48.23*	10
Architecture and engineering	1.8	2.5*	42.01	45.76*	9
Life, physical, and social science	0.8	1.7*	36.62	41.48*	13
Community and social service.....	1.5	2.0*	23.69	24.33	3
Legal.....	0.8	1.0*	52.25	64.82*	24
Education, training, and library.....	6.1	6.6*	27.22	33.36*	23
Arts, design, entertainment, sports, and media.....	1.3	1.5*	28.74	32.11*	12
Healthcare practitioners and technical	6.0	6.6*	39.42	48.78*	24
Healthcare support	2.8	2.7*	15.57	18.16*	17
Protective service	2.4	2.2*	23.36	27.61*	18
Food preparation and serving related	9.2	8.3*	12.30	14.99*	22
Building and grounds cleaning and maintenance ...	3.1	2.9	14.43	17.88*	24
Personal care and service.....	3.8	3.9*	13.51	16.93*	25
Sales and related	10.0	9.0*	20.09	24.80*	23
Office and administrative support.....	15.1	14.0*	18.75	22.12*	18
Farming, fishing, and forestry.....	0.3	(2)*	14.49	17.36*	20
Construction and extraction.....	4.1	3.5*	24.62	31.29*	27
Installation, maintenance, and repair	3.9	2.7*	23.54	27.41*	16
Production	6.3	3.9*	18.84	20.84*	11
Transportation and material moving.....	7.1	5.1*	18.41	19.90*	8

Note: See footnotes at end of table.

Footnotes:

(1) A positive percent difference measures how much the mean wage in the Boston-Cambridge-Nashua Metropolitan Statistical Area is above the national mean wage, while a negative difference reflects a lower wage.

(2) Indicates a value of less than 0.05 percent

* The mean hourly wage or percent share of employment is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—computer and mathematical—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Boston-Cambridge-Nashua had 132,130 jobs in computer and mathematical occupations, accounting for 4.8 percent of local area employment, significantly higher than the 3.0-percent share nationally. The average hourly wage for this occupational group locally was \$48.23, significantly above the national wage of \$44.01.

Some of the larger detailed occupations within the computer and mathematical group included software developers, applications (29,270), software developers, systems software (24,870), and computer user support specialists (17,250). Among the higher-paying jobs in this group were computer network architects and software developers, systems software, with mean hourly wages of \$59.15 and \$57.18, respectively. At the lower end of the wage scale were computer user support specialists (\$31.23) and computer network support specialists (\$40.24). (Detailed data for the computer and mathematical occupations are presented in [table 1](#); for a complete listing of detailed occupations available go to www.bls.gov/oes/current/oes_71650.htm .)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See [table 1](#).) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Boston-Cambridge-Nashua Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the computer and mathematical group. For instance, software developers, systems software were employed at 3.2 times the national rate in Boston, and computer network architects, at 1.9 times the U.S. average. On the other hand, computer programmers had a location quotient of 0.9 in Boston, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Massachusetts Division of Unemployment Assistance.

Notes on Occupational Employment Statistics Data

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OES continues to publish data for metropolitan and nonmetropolitan areas that cover the full geography of the United States. However, the level of detail available has decreased.

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In addition, some smaller nonmetropolitan areas have been combined to form larger nonmetropolitan areas. The May 2018 OES estimates contain data for 134 nonmetropolitan areas, compared with 167 nonmetropolitan areas in the May 2017 estimates.

More information on these area changes is available at www.bls.gov/oes/areas_2018.htm.

Implementing the 2018 Standard Occupational Classification (SOC) System

The OES program plans to begin implementing the 2018 Standard Occupational Classification (SOC) system with the May 2019 estimates, to be released by early April of 2020. Because each set of OES estimates is produced by combining three years of survey data, estimates for May 2019 and May 2020 will be based on a combination of survey data collected under the 2010 SOC and data collected under the 2018 SOC, and will use a hybrid of the two classification systems. The May 2021 OES estimates, to be released by early April of 2022, will be the first set of estimates based fully on the 2018 SOC. For more information, please see www.bls.gov/oes/soc_2018.htm.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OES data available from BLS include cross-industry occupational employment and wage estimates for the nation; over 580 areas, including states and the District of Columbia, metropolitan statistical areas (MSAs), nonmetropolitan areas, and territories; national industry-specific estimates at the NAICS sector, 3-digit, most 4-digit, and selected 5- and 6-digit industry levels, and national estimates by ownership across all industries and for schools and hospitals. OES data are available at www.bls.gov/oes/tables.htm.

The OES survey is a cooperative effort between BLS and the State Workforce Agencies (SWAs). BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies collect most of the data. OES estimates are constructed from a sample of about 1.2 million establishments. Each year, two semiannual panels of approximately 180,000 to 200,000 sampled establishments are contacted, one panel in May and the other in November. Responses are obtained by mail, Internet or other electronic means, email, telephone, or personal visit. The May 2018 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2018, November 2017, May 2017, November 2016, May 2016, and

November 2015. The unweighted sample employment of 83 million across all six semiannual panels represents approximately 58 percent of total national employment. The overall national response rate for the six panels, based on the 50 states and the District of Columbia, is 71 percent based on establishments and 68 percent based on weighted sampled employment. The sample in the Boston-Cambridge-Nashua Metropolitan Statistical Area included 20,631 establishments with a response rate of 69 percent. For more information about OES concepts and methodology, go to www.bls.gov/oes/current/oes_tec.htm.

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

The May 2018 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2017 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website at www.bls.gov/soc and information about the 2017 NAICS is available at www.bls.gov/bls/naics.htm.

Metropolitan area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Boston-Cambridge-Nashua, Mass.-N.H. Metropolitan Statistical Area** includes Abington town, MA; Acton town, MA; Amesbury town, MA; Amherst town, NH; Andover town, MA; Arlington town, MA; Ashby town, MA; Ashland town, MA; Atkinson town, NH; Avon town, MA; Ayer town, MA; Bedford town, MA; Belmont town, MA; Berkley town, MA; Berlin town, MA; Beverly city, MA; Billerica town, MA; Bolton town, MA; Boston city, MA; Boxborough town, MA; Boxford town, MA; Braintree town, MA; Bridgewater town, MA; Brockton city, MA; Brookline town, MA; Brookline town, NH; Burlington town, MA; Cambridge city, MA; Canton town, MA; Carlisle town, MA; Carver town, MA; Chelmsford town, MA; Chelsea city, MA; Chester town, NH; Cohasset town, MA; Concord town, MA; Danvers town, MA; Danville town, NH; Dedham town, MA; Derry town, NH; Dighton town, MA; Dover town, MA; Dracut town, MA; Dunstable town, MA; Duxbury town, MA; East Bridgewater town, MA; East Kingston town, NH; Easton town, MA; Essex town, MA; Everett city, MA; Foxborough town, MA; Framingham town, MA; Franklin city, MA; Freetown town, MA; Fremont town, NH; Georgetown town, MA; Gloucester city, MA; Greenfield town, NH; Greenville town, NH; Groton town, MA; Groveland town, MA; Halifax town, MA; Hamilton town, MA; Hampstead town, NH; Hampton Falls town, NH; Hanover town, MA; Hanson town, MA; Harvard town, MA; Haverhill city, MA; Hingham town, MA; Holbrook town, MA; Hollis town, NH; Holliston town, MA; Hopedale town, MA; Hopkinton town, MA; Hudson town, MA; Hudson town, NH; Hull town, MA; Ipswich town, MA; Kensington town, NH; Kingston town, MA; Kingston town, NH; Lakeville town, MA; Lawrence city, MA; Lexington town, MA; Lincoln town, MA; Litchfield town, NH; Littleton town, MA; Londonderry town, NH; Lowell city, MA; Lyndeboro town, NH; Lynn city, MA; Lynnfield town, MA; Malden city, MA; Manchester by the Sea town, MA; Mansfield town, MA; Marblehead town, MA; Marlborough city, MA; Marshfield town, MA; Mason town, NH; Maynard town, MA; Medfield town, MA; Medford city, MA; Medway town, MA; Melrose city, MA; Mendon town, MA; Merrimac town, MA; Merrimack town, NH; Methuen city, MA; Middleborough town, MA; Middleton town, MA; Milford town, MA; Milford town, NH; Millis town, MA; Milton town, MA; Mont Vernon town, NH; Nahant town, MA; Nashua city, NH; Natick town, MA; Needham town, MA; Newbury town, MA; Newburyport city, MA; Newton city, MA; Newton town, NH; Norfolk town, MA; North Andover town, MA; North Reading town, MA; Norton town, MA; Norwell town, MA; Norwood

town, MA; Peabody city, MA; Pelham town, NH; Pembroke town, MA; Pepperell town, MA; Plaistow town, NH; Plymouth town, MA; Plympton town, MA; Quincy city, MA; Randolph town, MA; Raynham town, MA; Reading town, MA; Revere city, MA; Rochester town, MA; Rockland town, MA; Rockport town, MA; Rowley town, MA; Salem city, MA; Salem town, NH; Salisbury town, MA; Sandown town, NH; Saugus town, MA; Scituate town, MA; Seabrook town, NH; Sharon town, MA; Sherborn town, MA; Shirley town, MA; Somerville city, MA; South Hampton town, NH; Southborough town, MA; Stoneham town, MA; Stoughton town, MA; Stow town, MA; Sudbury town, MA; Swampscott town, MA; Taunton city, MA; Temple town, NH; Tewksbury town, MA; Topsfield town, MA; Townsend town, MA; Tyngsborough town, MA; Wakefield town, MA; Walpole town, MA; Waltham city, MA; Watertown city, MA; Wayland town, MA; Wellesley town, MA; Wenham town, MA; West Bridgewater town, MA; West Newbury town, MA; Westford town, MA; Weston town, MA; Westwood town, MA; Weymouth town, MA; Whitman town, MA; Wilmington town, MA; Wilton town, NH; Winchester town, MA; Windham town, NH; Winthrop town, MA; Woburn city, MA; Wrentham town, MA.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/new-england. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at www.bls.gov/oes/current/methods_statement.pdf.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Boston-Cambridge-Nashua Metropolitan Statistical Area, May 2018

Occupation ⁽¹⁾	Employment		Mean wages	
	Level ⁽²⁾	Location quotient ⁽³⁾	Hourly	Annual ⁽⁴⁾
Computer and mathematical occupations	132,130	1.6	\$48.23	\$100,310
Computer and information research scientists	610	1.1	56.48	117,480
Computer systems analysts	13,590	1.2	45.99	95,660
Information security analysts	3,050	1.5	52.28	108,730
Computer programmers	3,880	0.9	45.28	94,190
Software developers, applications	29,270	1.7	53.00	110,240
Software developers, systems software	24,870	3.2	57.18	118,920
Web developers	3,650	1.5	41.85	87,040
Database administrators	2,610	1.2	48.22	100,300
Network and computer systems administrators	8,000	1.2	45.10	93,800
Computer network architects	5,590	1.9	59.15	123,040
Computer user support specialists	17,250	1.4	31.23	64,960
Computer network support specialists	3,290	1.0	40.24	83,690
Computer occupations, all other	9,680	1.3	44.48	92,510
Actuaries	1,060	2.7	55.16	114,730
Operations research analysts	2,980	1.5	42.32	88,030
Statisticians	2,700	3.6	53.82	111,950

Footnotes:

(1) For a complete listing of all detailed occupations in the Boston-Cambridge-Nashua, MA-NH Metropolitan Statistical Area, see www.bls.gov/oes/current/oes_71650.htm

(2) Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

(3) The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

(4) Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

NEWS RELEASE

BUREAU OF LABOR STATISTICS

U. S. D E P A R T M E N T O F L A B O R



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Personal care and service	3.8	3.9*	13.51	16.93*	25
Sales and related	10.0	9.0*	20.09	24.80*	23
Office and administrative support	15.1	14.0*	18.75	22.12*	18
Farming, fishing, and forestry	0.3	(2)*	14.49	17.36*	20

Note: See footnotes at end of table.

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Major occupational group	Percent of total employment		Mean hourly wage		
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The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Boston-Cambridge-Nashua, Mass.-N.H. Metropolitan Statistical Area** includes Abington town, MA; Acton town, MA; Amesbury town, MA; Amherst town, NH; Andover town, MA; Arlington town, MA; Ashby town, MA; Ashland town, MA; Atkinson town, NH; Avon town, MA; Ayer town, MA; Bedford town, MA; Belmont town, MA; Berkley town, MA; Berlin town, MA; Beverly city, MA; Billerica town, MA; Bolton town, MA; Boston city, MA; Boxborough town, MA; Boxford town, MA; Braintree town, MA; Bridgewater town, MA; Brockton city, MA; Brookline town, MA; Brookline town, NH; Burlington town, MA; Cambridge city, MA; Canton town, MA; Carlisle town, MA; Carver town, MA; Chelmsford town, MA; Chelsea city, MA; Chester town, NH; Cohasset town, MA; Concord town, MA; Danvers town, MA; Danville town, NH; Dedham town, MA; Derry town, NH; Dighton town, MA; Dover town, MA; Dracut town, MA; Dunstable town, MA; Duxbury town, MA; East Bridgewater town, MA; East Kingston town, NH; Easton town, MA; Essex town, MA; Everett city, MA; Foxborough town, MA; Framingham town, MA; Franklin city, MA; Freetown town, MA; Fremont town, NH; Georgetown town, MA; Gloucester city, MA; Greenfield town, NH; Greenville town, NH; Groton town, MA; Groveland town, MA; Halifax town, MA; Hamilton town, MA; Hampstead town, NH; Hampton Falls town, NH; Hanover town, MA; Hanson town, MA; Harvard town, MA; Haverhill city, MA; Hingham town, MA; Holbrook town, MA; Hollis town, NH; Holliston town, MA; Hopedale town, MA; Hopkinton town, MA; Hudson town, MA; Hudson town, NH; Hull town, MA; Ipswich town, MA; Kensington town, NH; Kingston town, MA; Kingston town, NH; Lakeville town, MA; Lawrence city, MA; Lexington town, MA; Lincoln town, MA; Litchfield town, NH; Littleton town, MA; Londonderry town, NH; Lowell city, MA; Lyndeboro town, NH; Lynn city, MA; Lynnfield town, MA; Malden city, MA; Manchester by the Sea town, MA; Mansfield town, MA; Marblehead town, MA; Marlborough city, MA; Marshfield town, MA; Mason town, NH; Maynard town, MA; Medfield town, MA; Medford city, MA; Medway town, MA; Melrose city, MA; Mendon town, MA; Merrimac town, MA; Merrimack town, NH; Methuen city, MA; Middleborough town, MA; Middleton town, MA; Milford town, MA; Milford town, NH; Millis town, MA; Milton town, MA; Mont Vernon town, NH; Nahant town, MA; Nashua city, NH; Natick town, MA; Needham town, MA; Newbury town, MA; Newburyport city, MA; Newton city, MA; Newton town, NH; Norfolk town, MA; North Andover town, MA; North Reading town, MA; Norton town, MA; Norwell town, MA; Norwood

town, MA; Peabody city, MA; Pelham town, NH; Pembroke town, MA; Pepperell town, MA; Plaistow town, NH; Plymouth town, MA; Plympton town, MA; Quincy city, MA; Randolph town, MA; Raynham town, MA; Reading town, MA; Revere city, MA; Rochester town, MA; Rockland town, MA; Rockport town, MA; Rowley town, MA; Salem city, MA; Salem town, NH; Salisbury town, MA; Sandown town, NH; Saugus town, MA; Scituate town, MA; Seabrook town, NH; Sharon town, MA; Sherborn town, MA; Shirley town, MA; Somerville city, MA; South Hampton town, NH; Southborough town, MA; Stoneham town, MA; Stoughton town, MA; Stow town, MA; Sudbury town, MA; Swampscott town, MA; Taunton city, MA; Temple town, NH; Tewksbury town, MA; Topsfield town, MA; Townsend town, MA; Tyngsborough town, MA; Wakefield town, MA; Walpole town, MA; Waltham city, MA; Watertown city, MA; Wayland town, MA; Wellesley town, MA; Wenham town, MA; West Bridgewater town, MA; West Newbury town, MA; Westford town, MA; Weston town, MA; Westwood town, MA; Weymouth town, MA; Whitman town, MA; Wilmington town, MA; Wilton town, NH; Winchester town, MA; Windham town, NH; Winthrop town, MA; Woburn city, MA; Wrentham town, MA.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/new-england. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at www.bls.gov/oes/current/methods_statement.pdf.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Boston-Cambridge-Nashua Metropolitan Statistical Area, May 2018

Occupation ⁽¹⁾	Employment		Mean wages	
	Level ⁽²⁾	Location quotient ⁽³⁾	Hourly	Annual ⁽⁴⁾
Computer and mathematical occupations	132,130	1.6	\$48.23	\$100,310
Computer and information research scientists	610	1.1	56.48	117,480
Computer systems analysts	13,590	1.2	45.99	95,660
Information security analysts	3,050	1.5	52.28	108,730
Computer programmers	3,880	0.9	45.28	94,190
Software developers, applications	29,270	1.7	53.00	110,240
Software developers, systems software	24,870	3.2	57.18	118,920
Web developers	3,650	1.5	41.85	87,040
Database administrators	2,610	1.2	48.22	100,300
Network and computer systems administrators	8,000	1.2	45.10	93,800
Computer network architects	5,590	1.9	59.15	123,040
Computer user support specialists	17,250	1.4	31.23	64,960
Computer network support specialists	3,290	1.0	40.24	83,690
Computer occupations, all other	9,680	1.3	44.48	92,510
Actuaries	1,060	2.7	55.16	114,730
Operations research analysts	2,980	1.5	42.32	88,030
Statisticians	2,700	3.6	53.82	111,950

Footnotes:

(1) For a complete listing of all detailed occupations in the Boston-Cambridge-Nashua, MA-NH Metropolitan Statistical Area, see www.bls.gov/oes/current/oes_71650.htm

(2) Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

(3) The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

(4) Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

