

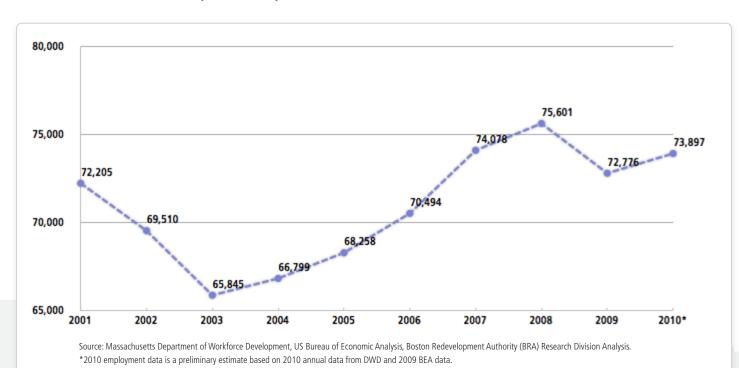
Professional, Scientific, and Technical Services Industry

The professional, scientific, and technical services industry is one of the larger industries in Boston, making up 11.2% of total employment in Boston in 2010. This ranks professional, scientific, and technical services 4th amongst the 20 major industrial sectors identified by the Bureau of Labor Statistics (BLS)¹. The professional, scientific, and technical services industry includes business activities such as legal services, management and technical consulting services, and architecture and engineering.

Employment

Today, Boston's professional, scientific, and technical services industry employs close to 74,000 people. Overall, the industry has experienced a fluctuation of job gains and job losses over the last decade. Since 2001, the professional, scientific, and technical services industry in Boston has increased by approximately 1%. The industry lost over 6,300 jobs during the two years following 2001; however, the professional, scientific, and technical services industry had regained most of its lost employment and peaked by 2008 when the current recession hit. Nearly 2,400 professional, scientific, and technical services jobs have been lost in the two years following 2008.

Number of Professional, Scientific, and Technical Service Jobs



The largest occupations in the professional, scientific, and technical industry in Boston include accountants and auditors, management analysts, and lawyers. Below is a list of the top ten professional, scientific, and technical services occupations in Boston by employment. These ten occupations make up approximately 32% of the professional, scientific, and technical services industry.

Top Ten Professional, Scientific, and Technical Service Occupations by Employment

Job Title:	<u>Total</u>
Accountants and Auditors	3,092
Management Analysts	3,024
Lawyers	2,630
Computer Software Engineers, Applications	2,421
Computer Software Engineers, Systems Software	2,010
Paralegals and Legal Assistants	2,042
Executive Secretaries and Administrative Assistants	1,976
Computer Programmers	1,964
Legal Secretaries	1,827
Office Clerks, General	1,533

Source: Labor Market Assessment Tool 2.0, (BRA) Research Division Analysis.

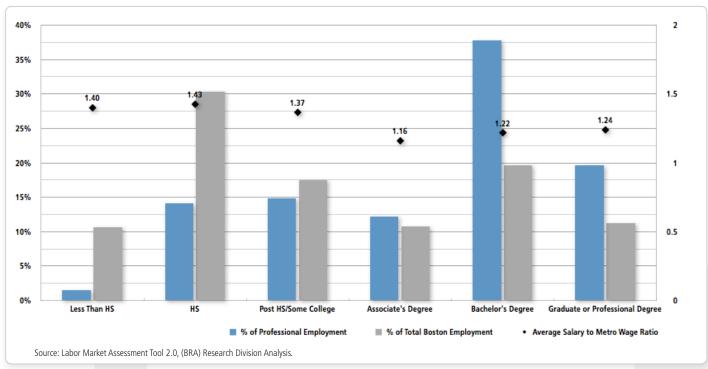
Major Employers in the Professional, Scientific, and Technical Services

The city's largest employers in the professional, scientific, and technical services industry include Pricewaterhouse Coopers, KPMG, Bain & Co Inc, Edwards Angell Palmer & Dodge, and Boston Consulting Group. Professional, scientific, and technical services establishments are scattered across the city, in particular they are concentrated in the Downtown and Back Bay neighborhoods. The attached map depicts the professional, scientific, and technical services establishments by size in Boston.

Education, Skill Requirements, and Wages

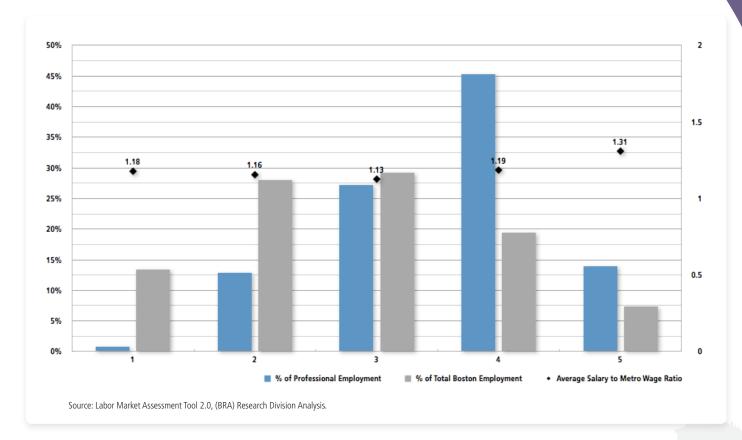
Overall, the educational requirements for the professional, scientific, and technical services industry are considerable. Close to 70% of jobs in professional, scientific, and technical services require an associate's degree or more. This is higher than Boston as a whole, where approximately 42% of jobs require an associate's degree or more. The Industry-to-Metro wage ratio shows how wages by educational requirement look different between an industry and the Metro Boston average for the same education level. In general, the average wages for jobs in professional, scientific, and technical services are higher than all jobs in the region by educational requirement.

Education Requirements and Wages



The Boston Redevelopment Authority's Labor Market Assessment Tool (LMAT)² also has different measures for job training, called job zones. The lower the job zone number, the less training, education, and previous work experience needed to perform the job. Overall, close to 87% of jobs in the professional, scientific, and technical services are in job zones 3, 4, and 5. This indicates the industry requires an array of skills with preparation ranging from extensive on-the-job experience to graduate-level degrees.

Job Zones and Wages



Sector Trends

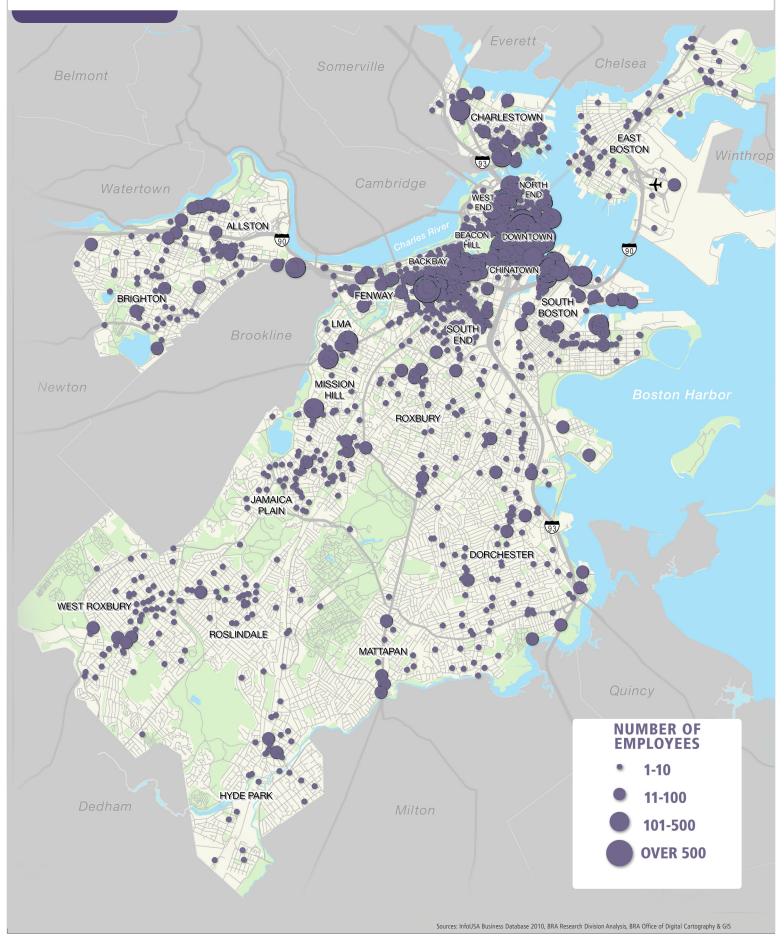
A location quotient (LQ) is used to assess the degree of regional specialization in an industry as compared to the national average. An LQ of "1" indicates that an industry is concentrated in a region's economy in a proportion similar to the US overall. An LQ over "1" indicates that the industry is an area of concentration for the region. With a location quotient of 1.62, the professional, scientific and technical services industry accounts for a greater proportion of total jobs in Boston than at the national level.

In the coming years, employment in the professional, scientific, and technical industry in Boston is expected to increase. Using New England Economic Partnership (NEEP) projections, we estimate the professional, scientific, and technical industry to grow by approximately 10.3 %—or 7,550 jobs—by 2015³. This change would account for 16.9% of the city's total employment change during the 5-year period.

Professional, Scientific, and Technical Services Industry

Professional, Scientific, and Technical Services Industry

Establishments by Employment Size



City of Boston - Industry Profiles

Rank Industry:	# OF EMPLOYEES	CHANGE IN JOBS 2001-2010	% OF TOTAL EMPLOYMENT	LOCATION QUOTIENT	AVERAGE WAGES	JOBS ADDED BY 2015
1. Health Care and Social Assistance Industry	122,532	26,390	18.5%	1.67	\$67,333	13,117
2. Public Administration	78,354	(11,619)	11.8%	0.84	\$66,111	2,911
State Government	39,185	12,474	5.9%	1.95	-	1,456
Local Government	22,983	(19,428)	3.5%	0.42	-	854
Federal Government	16, 184	1,354	2.4%	1.48	-	601
3. Finance and Insurance Industry	78,407	(5,993)	11.8%	2.28	\$170,624	1,695
Professional, Scientific and Technical Services Industry	73,897	1,692	11.2%	1.62	\$108,504	7,550
5. Educational Services Industry	50,247	6,585	7.6%	3.28	\$64,627	5,376
6. Accommodation and Food Services Industry	49,577	6,143	7.5%	1.06	\$25,956	4,622
7. Administrative and Support and Waste Management Remediation Services Industry	32,124	(7,675)	4.9%	1.01	\$46,005	3,286
8. Retail Trade Industry	30,477	(360)	4.6%	0.45	\$30,664	655
9. Other Services (except Public Administration)	29,279	2,967	4.4%	0.89	\$37,933	1,264
10. Real Estate and Rental and Leasing Industry	21,382	2,227	3.2%	0.75	\$80,999	465
11. Transportation and Warehousing Industry	18,537	(5,893)	2.8%	0.88	\$49,115	(426)
12. Information Industry	16,407	(5,844)	2.5%	1.28	\$88,463	1,583
13. Arts, Entertainment, and Recreation Industry	14,712	2,452	2.2%	1.00	\$79,502	1,383
14. Construction Industry	13,864	(5,794)	2.1%	0.41	\$90,825	28
15. Manufacturing Industry	9,545	(8,596)	1.4%	0.20	\$73,448	175
16. Wholesale Trade Industry	9,256	(1,672)	1.4%	0.41	\$79,231	283
17. Management of Companies and Enterprises	6,243	(4,022)	0.9%	0.86	\$122,906	643
18. Utilities Industry	2,441	(249)	0.4%	-	\$102,170	63
19. Agriculture, Forestry, Fishing and Hunting and \mbox{N}	lining 180	(1)	0.0%	-	\$51,720	26
Total	657,461	(9,262)	99.3%	-	\$78,375	47,610

[•] Projections for 2010-2015 are based upon the New England Economic Partnership (NEEP) May 2011 forecast.

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Alvaro Lima, Director of Research

Mark Melnik

John Avault

Nanette Dyer Blake

Derek Shooster

Nicoya Borella

^{• 2010} employment data is a preliminary estimate based on 2010 annual data from DWD and 2009 BEA data.

[•] Because of low employment, Agriculture and Mining were combined for this table.