BU’s BEST
Biomedical Workforce Data 2021
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These data can also be found online at www.bu.edu/BEST. This work was supported by NIH Grant DP7OD02032, BU’s BEST.
Labor Insight™

About

Labor Insight™ is software offered by Burning Glass® Technologies. This tool allows educational institutions and others to analyze the job market so as to identify demand for specific jobs as well as the skills and credentials employers are seeking to fill the jobs. The data also enable analysis of regional demand and job trends. The information allows educational institutions to plan programming to meet employer needs. Moreover, trainees can use the data to identify training opportunities that will best prepare them to achieve their career goals.

As the search engine is constantly updated, the trend data (job postings/year) reported here does not necessarily match the exact values reported in previous years.

Workflow

1. Develop a search based on various criteria: industry, job type, required credentials, skill demand, experience, location, etc.
2. View reports: top job titles, top job skills, top employers, job trends, job demand maps, etc.

Notes

All searches were performed such that the reported jobs require or prefer that the applicant earned a PhD.

Caveats & Disclaimers

Date ranges are January 1, 2021 – December 31, 2021 for job searches (trend analysis, 2011-2021).

As the data are generated through job advertisements, small and midsized companies hiring small numbers of employees might not be listed in “top employers” but should not be ruled out.
Teaching

Number of job postings (nationwide): 2,848
Job Titles: Teaching 2021

- Assist Professor, Biology: 147
- Assist Professor, Chemistry: 78
- Instructor, Biology: 76
- Instructor, Chemistry: 43
- Visiting Assist Professor, Chemistry: 29
- Visiting Assist Professor, Biology: 26
- Adjunct Instructor, Biology: 25
- Biology Faculty: 22
- High School Teacher, Chemistry: 13
- Assist Professor, Organic Chemistry: 11
- Assist/Assoc Professor, Chemistry: 11
- Lecturer, Biology: 11
- High School Teacher, Biology: 10
- Adjunct Instructor, Biology: 9
- High School Teacher, Physics: 9

Specialized (Hard) Skills: Teaching 2021

- Teaching: 2,670
- Biology: 1,621
- Chemistry: 1,132
- Biochemistry: 643
- Physiology: 629
- Anatomy: 463
- Microbiology: 381
- Molecular Biology: 323
- Organic Chemistry: 282
- Physics: 255
- Academic Advisement: 249
- Genetics: 248
- Curriculum Development: 230
- Cell Biology: 213
- Pharmacology: 181
Baseline (Soft) Skills: Teaching 2021

- Research: 1,579
- Communication Skills: 617
- Mentoring: 533
- Teamwork/Collaboration: 457
- Creativity: 250
- Writing/Written Communication: 247
- Planning: 152
- Organizational Skills: 126
- Problem Solving: 94
- English Proficiency: 87
- Building Effective Relationships: 81
- Critical Thinking: 73
- Oral Communication: 72
- Presentation Skills: 64
- Computer Literacy: 62

Number of Job Postings

Computer Skills: Teaching 2021

- Microsoft Excel: 77
- Blackboard LMS/CMS: 69
- Microsoft Office: 51
- Microsoft PowerPoint: 40
- Microsoft Word: 38
- Moodle: 33
- Google Drive: 23
- Facebook: 18
- Microsoft Outlook: 17
- Electronic Data Interchange: 10
- Hypertext Preprocessor (PHP): 8
- Software Engineering: 8
- Python: 7
- Data Visualization: 6
- Ab Initio: 3

Number of Job Postings
Employers: Teaching 2021

- University of California: 66 job postings
- State University of New York: 27 job postings
- BASIS Independent Schools: 23 job postings
- University of Cincinnati: 23 job postings
- West Virginia University: 23 job postings
- University of Chicago: 20 job postings
- San Ramon Valley Unified School District: 19 job postings
- Hamilton College: 18 job postings
- University of Pennsylvania: 17 job postings
- Indiana University: 16 job postings
- St. Mary Health Care: 16 job postings
- University of Washington: 16 job postings
- Yosemite Community College District: 16 job postings
- Fairleigh Dickinson University: 15 job postings
- Louisiana State University: 15 job postings

Job Postings by Year: Teaching 2011-2021

The chart shows the number of job postings by year from 2011 to 2021. The number of job postings fluctuates over the years, with peaks in 2012, 2019, and 2021, and a notable dip in 2015.
Demand Areas by MSA: Teaching 2021

<table>
<thead>
<tr>
<th>Metropolitan Statistical Area (MSA)</th>
<th>Job Postings</th>
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<tbody>
<tr>
<td>New York-Newark-Jersey City, NY-NJ-PA</td>
<td>161</td>
</tr>
<tr>
<td>Chicago-Naperville-Elgin, IL-IN-WI</td>
<td>101</td>
</tr>
<tr>
<td>Los Angeles-Long Beach-Anaheim, CA</td>
<td>100</td>
</tr>
<tr>
<td>San Francisco-Oakland-Hayward, CA</td>
<td>87</td>
</tr>
<tr>
<td>Boston-Cambridge-Nashua, MA-NH*</td>
<td>81</td>
</tr>
<tr>
<td>Washington-Arlington-Alexandria, DC-VA-MD-WV</td>
<td>66</td>
</tr>
<tr>
<td>Philadelphia-Camden-Wilmington, PA-NJ-DE-MD</td>
<td>62</td>
</tr>
<tr>
<td>Atlanta-Sandy Springs-Roswell, GA</td>
<td>43</td>
</tr>
<tr>
<td>Cincinnati, OH-KY-IN</td>
<td>38</td>
</tr>
<tr>
<td>Miami-Fort Lauderdale-West Palm Beach, FL</td>
<td>38</td>
</tr>
<tr>
<td>St. Louis, MO</td>
<td>34</td>
</tr>
<tr>
<td>Seattle-Tacoma-Bellevue, WA</td>
<td>32</td>
</tr>
<tr>
<td>Dallas-Fort Worth-Arlington, TX</td>
<td>31</td>
</tr>
<tr>
<td>Denver-Aurora-Lakewood, CO</td>
<td>29</td>
</tr>
<tr>
<td>Houston-The Woodlands-Sugar Land, TX</td>
<td>28</td>
</tr>
</tbody>
</table>

*Metropolitan NECTA (New England City and Town Area)
Demand Areas by State: Teaching 2021

<table>
<thead>
<tr>
<th>State</th>
<th>Job Postings</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>329</td>
</tr>
<tr>
<td>New York</td>
<td>182</td>
</tr>
<tr>
<td>Texas</td>
<td>175</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>149</td>
</tr>
<tr>
<td>Florida</td>
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<tr>
<td>Illinois</td>
<td>117</td>
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<tr>
<td>Massachusetts</td>
<td>113</td>
</tr>
<tr>
<td>North Carolina</td>
<td>101</td>
</tr>
<tr>
<td>Georgia</td>
<td>93</td>
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<tr>
<td>New Jersey</td>
<td>86</td>
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<tr>
<td>Ohio</td>
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<tr>
<td>Virginia</td>
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</tr>
<tr>
<td>Indiana</td>
<td>64</td>
</tr>
<tr>
<td>Colorado</td>
<td>62</td>
</tr>
<tr>
<td>Maryland</td>
<td>54</td>
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