BU’s BEST
Biomedical Workforce Data 2020
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*These data can also be found online at www.bu.edu/BEST.*
*This work is 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 doesn’t necessarily match the exact values reported in previous years. For the sake of consistency, each search was rerun for all the years reported (2011-2019) with the identical search terms so that the values can be compared with the most recent data.

Workflow

1. Craft a search based on various criteria: industry, job type, required credentials, skill demand, experience, location, etc.

2. View reports: top employers, top job titles, top job skills, education/credentials, job demand maps, job trends, etc.

Notes

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

Caveats & Disclaimers

Date ranges are January 2020 – December 2020 for job searches.

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.
Career Paths:
Job Trends Summary

Job postings by year
Academic Research

Number of job postings (nationwide): 11,971
Baseline (Soft) Skills: Academic Research 2020

- Research: 11,570
- Communication Skills: 3,907
- Writing/Written Communication: 3,594
- Teamwork/Collaboration: 3,114
- Organizational Skills: 1,593
- Planning: 1,226
- Mentoring: 1,199
- Creativity: 1,019
- Detail-Oriented: 888
- Problem Solving: 821
- Presentation Skills: 730
- Oral Communication: 611
- Editing: 589
- Troubleshooting: 511
- English Proficiency: 510

Number of Job Postings

Computer Skills: Academic Research 2020

- Python: 1,129
- Microsoft Excel: 679
- MATLAB: 606
- Microsoft Office: 543
- SAS: 514
- R: 476
- C++: 413
- Microsoft PowerPoint: 413
- STATA: 368
- SPSS: 354
- Microsoft Word: 321
- Linux: 286
- Computer Engineering: 282
- Software Development: 282
- Data Visualization: 187

Number of Job Postings
Top Employers: Academic Research 2020

- University of California: 773
- University of Washington: 351
- University of Illinois: 264
- Princeton University: 254
- University of North Carolina: 213
- University of Pennsylvania: 212
- Georgia Institute of Technology: 205
- Pennsylvania State University: 189
- Washington University in St. Louis: 184
- University of Virginia: 182
- Case Western Reserve University: 181
- Rutgers University: 167
- Emory University: 164
- Carnegie Mellon University: 150
- University of Florida: 149

Job Postings by Year: Academic Research 2011-2020
High Demand Areas by State: Academic Research 2020

<table>
<thead>
<tr>
<th>State</th>
<th>Job Postings</th>
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<td>California</td>
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