BU’s BEST
Biomedical Workforce Data 2017
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This data can also be found online at:  
www.bu.edu/BEST  

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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.

Workflow

1. Craft a search based on 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 or request a PhD.

Caveats & Disclaimers

Date ranges are January 2017 – December 2017 for job searches and May 2017 – May 2018 for demand maps.

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

Number of Jobs Postings in Search:
7,972
Top Job Titles: Academic Research

- Postdoctoral fellow: 786
- Associate research scientist: 497
- Research scientist: 417
- Assistant research scientist: 237
- Assistant research professor: 196
- Physicist: 98
- Senior associate research scientist: 82
- Senior research scientist: 56
- Epidemiologist: 53
- Director of research: 62

Top Employers: Academic Research

- Pennsylvania State University: 393
- University of California: 215
- Washington University in St. Louis: 198
- University of North Carolina: 195
- University of Florida: 169
- University of Arizona: 184
- University of Illinois: 178
- Indiana University: 162
- University of Michigan: 137
- University of Washington: 133
Specialized (Hard) Skills: Academic Research

Baseline (Soft) Skills: Academic Research
Computer Skills: Academic Research

Job Postings by Year: Academic Research
## High Demand Areas: Academic Research

### Key
- **High**
- **Low**

<table>
<thead>
<tr>
<th>Metro Area</th>
<th>Job Postings</th>
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<tbody>
<tr>
<td>New York-Jersey City, NY-NJ-PA</td>
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<td>St. Louis, MO-IL</td>
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</table>
Business & Administration

Number of Jobs Postings in Search:
6,059
Top Job Titles: Business & Administration

- Medical science liaison: 363
- Senior medical science liaison: 158
- Program manager: 133
- Neurology medical science liaison: 121
- Project manager: 117
- Development associate: 105
- Director of business development: 105
- Oncology medical science liaison: 100
- Respiratory medical science liaison: 95
- Medical director: 85

Number of Job Postings

Top Employers: Business & Administration

- Novartis: 254
- Johnson & Johnson: 238
- inVentiv Health: 195
- Celgene Corporation: 158
- Amgen: 141
- Merck & Company: 118
- Pfizer: 117
- Teva Pharmaceuticals: 114
- Anthem Blue Cross: 101
- AbbVie: 86

Number of Job Postings
Specialized (Hard) Skills: Business & Administration

Baseline (Soft) Skills: Business & Administration
Computer Skills: Business & Administration

Job Postings by Year: Business & Administration
## High Demand Areas: Business & Administration

### Metro Area

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<td>Seattle-Tacoma-Bellevue, WA</td>
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<tr>
<td>Oxnard-Thousand Oaks-Ventura, CA</td>
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</tbody>
</table>
Communication

Number of Jobs Postings in Search: 2,154
Top Job Titles: Communication

- Medical writer: 562
- Marketing manager: 192
- Sales specialist: 88
- Communications manager: 87
- Director of marketing: 71
- Technical writer: 58
- Product manager: 54
- Associate editor: 29
- Senior director of strategic science and innovation: 23
- Communications associate: 21

Top Employers: Communication

- Amgen: 150
- General Electric Company: 100
- Johnson & Johnson: 67
- Pfizer: 43
- Celgene Corporation: 41
- Novartis: 33
- Genentech: 27
- Danaher Corporation: 25
- Merck & Company: 24
- AstraZeneca: 23

Number of Job Postings
Specialized (Hard) Skills: Communication

- Teamwork/collaboration: 847
- Biotechnology: 796
- Medical writing: 511
- Project management: 506
- Budgeting: 481
- Oncology: 347
- Product development: 342
- Clinical research: 341
- Pharmaceutical industry knowledge: 313
- Clinical development: 307

Baseline (Soft) Skills: Communication

- Communication skills: 1255
- Writing: 1176
- Research: 1021
- Planning: 581
- Editing: 513
- Problem solving: 451
- Organizational skills: 418
- Detail-oriented (Attention to details): 402
- Presentation skills: 337
- Leadership: 316
Computer Skills: Communication

Job Postings by Year: Communication
# High Demand Areas: Communication

The map above visualizes the concentration of job postings in various metropolitan areas across the United States. The map uses different shades of blue to indicate the level of demand, with darker shades representing higher demand. The legend, located at the bottom of the map, helps identify these levels.

### Metro Areas with High Job Postings

<table>
<thead>
<tr>
<th>Metro Area</th>
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<tr>
<td>Boston-Cambridge-Nashua, MA-NH</td>
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<td>San Jose-Sunnyvale-Santa Clara, CA</td>
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</table>
Industry Research

Number of Jobs Postings in Search:
10,724
Top Job Titles: Industry Research

Top Employers: Industry Research
Specialized (Hard) Skills: Industry Research

Baseline (Soft) Skills: Industry Research
High Demand Areas: Industry Research

<table>
<thead>
<tr>
<th>Metro Area</th>
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</table>
Law

Number of Jobs Postings in Search:
1,232
Top Job Titles: Law

- Corporate counsel: 129
- Attorney: 81
- Patent attorney: 78
- Associate general counsel: 59
- Safety manager: 50
- Patent counsel: 40
- Associate counsel: 34
- Assistant general counsel: 33
- Safety officer: 29
- General counsel: 27

Top Employers: Law

- Pfizer: 81
- Amgen: 33
- Johnson & Johnson: 23
- Genentech: 23
- Novartis: 19
- BASF Corporation: 18
- Gilead Sciences: 16
- US Department of Agriculture: 15
- Sanofi Aventis: 15
- Seattle Genetics: 14
Specialized (Hard) Skills: Law

- Biotechnology: 538
- Teamwork/collaboration: 476
- Intellectual property: 379
- Litigation: 338
- Contract preparation: 213
- Chemistry: 188
- Due diligence: 183
- Pharmaceutical industry knowledge: 160
- Business development: 151
- Pharmacovigilance: 146

Baseline (Soft) Skills: Law

- Communication skills: 615
- Research: 560
- Writing: 291
- Detail-oriented (Attention to details): 204
- Organizational skills: 201
- Problem solving: 188
- Creativity: 152
- Planning: 136
- Presentation skills: 73
- Leadership: 73
Computer Skills: Law

Job Postings by Year: Law
High Demand Areas: Law

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Policy

Number of Jobs Postings in Search:
513
Top Job Titles: Policy

- Health economist: 17
- Online academic coach: 14
- Survey statistician: 12
- Assistant professor of economics: 12
- Research associate: 8
- Policy analyst: 7
- Senior scientist: 7
- Senior research scientist: 7
- Medical technologist: 7
- Statistician: 6

Top Employers: Policy

- NOLA (New Orleans, LA) Media Group: 40
- RAND Corporation: 17
- US Department of Veterans Affairs: 11
- US Census Bureau: 9
- Mathematica Policy Research: 8
- Mathematica Incorporated: 8
- NYC Department of Health and Mental Hygiene: 7
- Dalhousie University: 7
- Ford Motor Company: 6
Specialized (Hard) Skills: Policy

- Economics: 259
- Public health and safety: 188
- Teamwork/collaboration: 154
- Teaching: 147
- Policy research: 145
- Biology: 141
- Policy analysis: 138
- Psychology: 125
- Strategic planning: 106
- Chemistry: 106

Baseline (Soft) Skills: Policy

- Research: 465
- Communication skills: 226
- Writing: 203
- Planning: 173
- Creativity: 116
- English (English proficiency): 107
- American sign language: 87
- Bilingual: 80
- English as a second language: 73
- Problem solving: 71
High Demand Areas: Policy

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<td>Sacramento-Roseville-Arden-Arcade, CA</td>
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<td>Atlanta-Sandy Springs-Roswell, GA</td>
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<tr>
<td>New Orleans-Metairie, LA</td>
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</tbody>
</table>
Teaching

Number of Jobs Postings in Search:
2,512
Specialized (Hard) Skills: Teaching

Baseline (Soft) Skills: Teaching
Computer Skills: Teaching

- Microsoft Excel: 31
- Blackboard: 29
- Microsoft Office: 25
- Microsoft PowerPoint: 21
- Microsoft Word: 20
- Object-oriented analysis and design (OOAD): 10
- Facebook: 9
- SAS (Statistical Analysis System): 7
- Moodle: 7
- Software development: 5

Job Postings by Year: Teaching

Number of Job Postings

Year


3200
2800
2400
2000
1600
1200
800
400
0
High Demand Areas: Teaching

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