

Life, Physical, and Social Science Occupations in Frederick County, MD

Frederick County Workforce Services



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What is Emsi Data?

Emsi data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Emsi data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.



Report Parameters

1 Occupation

19-0000 Life, Physical, and Social Science Occupations

1 County

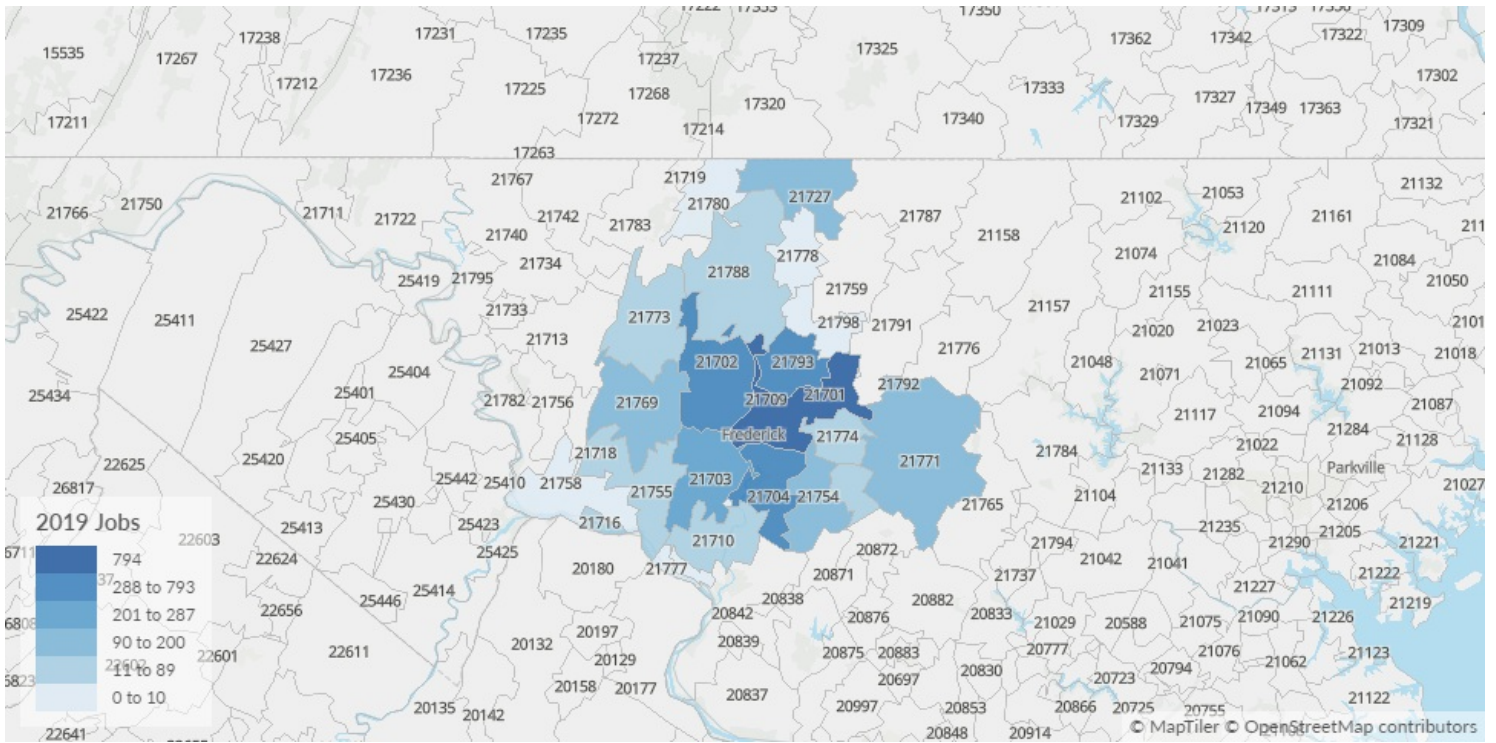
24021 Frederick County, MD

Class of Worker

QCEW Employees, Non-QCEW Employees, and Self-Employed

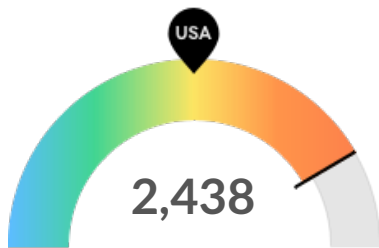
The information in this report pertains to the chosen occupation and geographical area.

Workforce Map



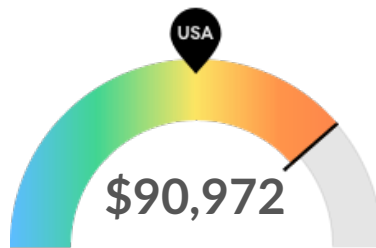
Executive Summary

Aggressive Hiring Competition Over a Deep Supply of Regional Talent



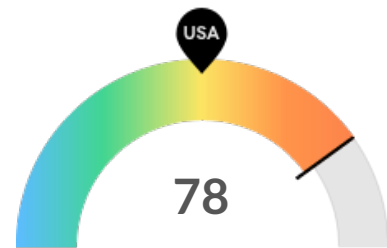
Supply (Jobs)

Frederick County, MD is a hotspot for this kind of talent. The national average for an area this size is 947* employees, while there are 2,438 here.



Compensation

The cost for talent is high in Frederick County, MD. The national median salary for Life, Physical, and Social Science Occupations is \$67,039, while you'll pay \$90,972 here.



Demand (Job Postings)

Competition from online job postings is high in Frederick County, MD. The national average for an area this size is 33* job postings/mo, while there are 78 here.

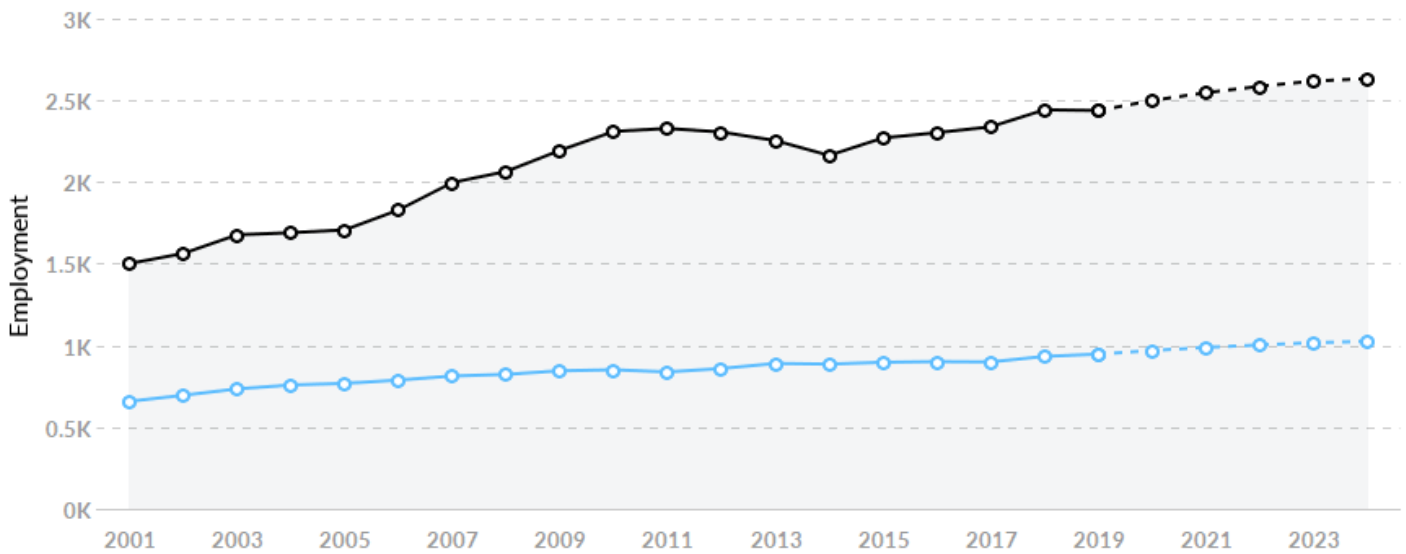
*National average values are derived by taking the national value for Life, Physical, and Social Science Occupations and scaling it down to account for the difference in overall workforce size between the nation and Frederick County, MD. In other words, the values represent the national average adjusted for region size.

Supply (Jobs)

Supply Is Higher Than the National Average

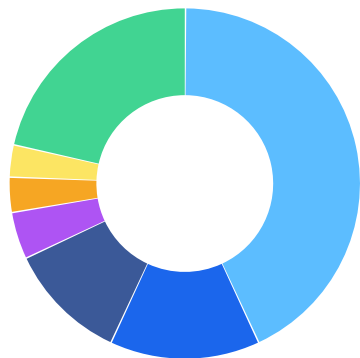
The regional vs. national average employment helps you understand if the supply of Life, Physical, and Social Science Occupations is a strength or weakness for Frederick County, MD, and how it is changing relative to the nation. An average area of this size would have 947* employees, while there are 2,438 here. This higher than expected supply may make it easier to find candidates. The gap between expected and actual employment is expected to remain roughly the same over the next 5 years.

13% Past Growth (2014 - 2019) **8% Projected Growth (2019 - 2024)**



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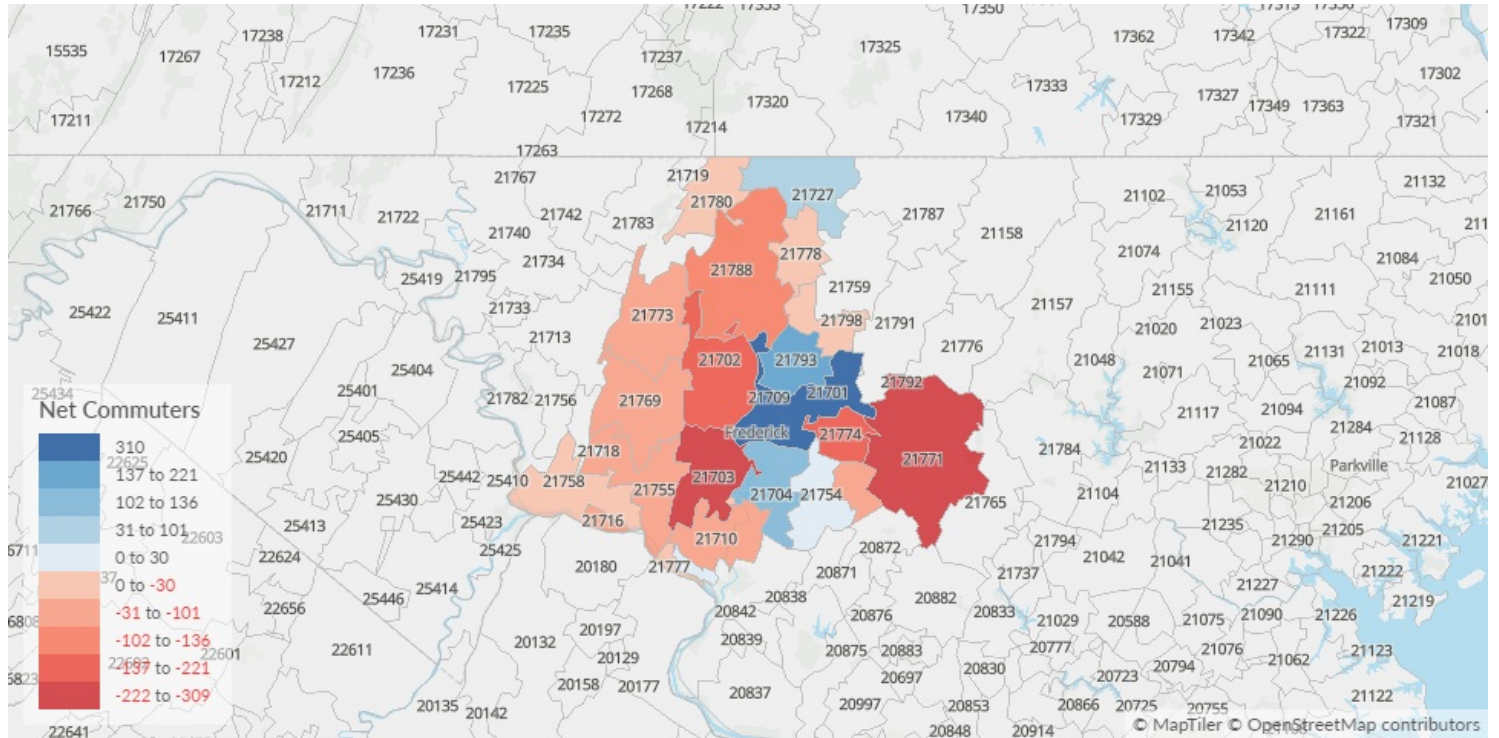
Most Jobs are Found in the Scientific Research and Development Services Industry Sector



| Industry | % of Occupation in Industry (2019) |
|-----------------------------------------------------|------------------------------------|
| Scientific Research and Development Services | 43.0% |
| Federal Government, Civilian | 13.8% |
| Pharmaceutical and Medicine Manufacturing | 11.1% |
| Colleges, Universities, and Professional Schools | 4.3% |
| Architectural, Engineering, and Related Services | 3.2% |
| Local Government, Excluding Education and Hospitals | 3.0% |
| Other | 21.5% |

Place of Work vs Place of Residence

Understanding where talent in Frederick County, MD currently works compared to where talent lives can help you optimize site decisions.



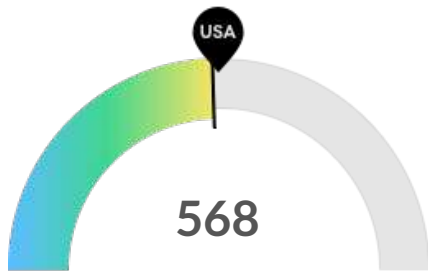
Where Talent Works

Where Talent Lives

| ZIP | Name | 2019 Employment |
|-------|-----------------------------|-----------------|
| 21701 | Frederick, MD (in Frede... | 794 |
| 21702 | Frederick, MD (in Frede... | 306 |
| 21704 | Frederick, MD (in Frede... | 304 |
| 21793 | Walkersville, MD (in Fre... | 288 |
| 21703 | Frederick, MD (in Frede... | 201 |

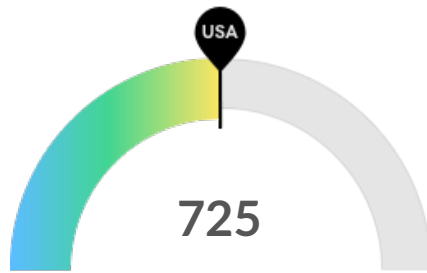
| ZIP | Name | 2019 Workers |
|-------|----------------------------|--------------|
| 21701 | Frederick, MD (in Frede... | 484 |
| 21702 | Frederick, MD (in Frede... | 480 |
| 21703 | Frederick, MD (in Frede... | 425 |
| 21771 | Mount Airy, MD (in Fred... | 312 |
| 21704 | Frederick, MD (in Frede... | 203 |

Retirement Risk Is About Average, While Overall Diversity Is About Average



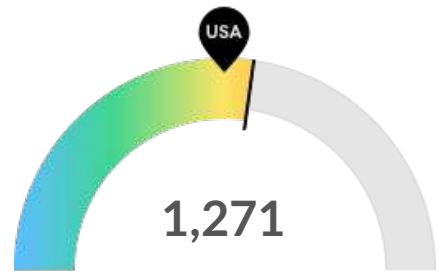
Retiring Soon

Retirement risk is about average in Frederick County, MD. The national average for an area this size is 584* employees 55 or older, while there are 568 here.



Racial Diversity

Racial diversity is about average in Frederick County, MD. The national average for an area this size is 726* racially diverse employees, while there are 725 here.



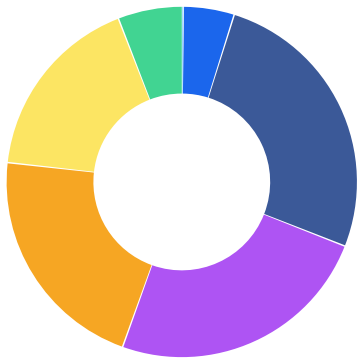
Gender Diversity

Gender diversity is high in Frederick County, MD. The national average for an area this size is 1,120* female employees, while there are 1,271 here.

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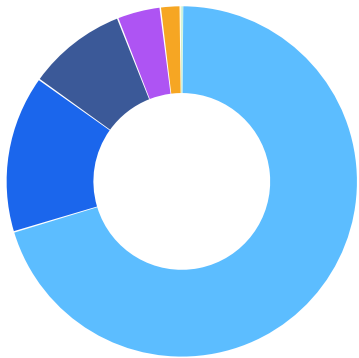
Demographic Details

Occupation Age Breakdown



| | % of Jobs | Jobs |
|---------|-----------|------|
| ● 14-18 | 0.1% | 2 |
| ● 19-24 | 4.7% | 115 |
| ● 25-34 | 26.1% | 637 |
| ● 35-44 | 24.5% | 598 |
| ● 45-54 | 21.3% | 519 |
| ● 55-64 | 17.3% | 423 |
| ● 65+ | 6.0% | 145 |



Occupation Race/Ethnicity Breakdown



| | % of Jobs | Jobs |
|---------------------------------------------|-----------|-------|
| ● White | 70.3% | 1,713 |
| ● Asian | 14.5% | 354 |
| ● Black or African American | 9.2% | 223 |
| ● Hispanic or Latino | 4.0% | 97 |
| ● Two or More Races | 1.8% | 45 |
| ● American Indian or Alaska Native | 0.1% | 3 |
| ● Native Hawaiian or Other Pacific Islander | 0.1% | 2 |

Occupation Gender Breakdown

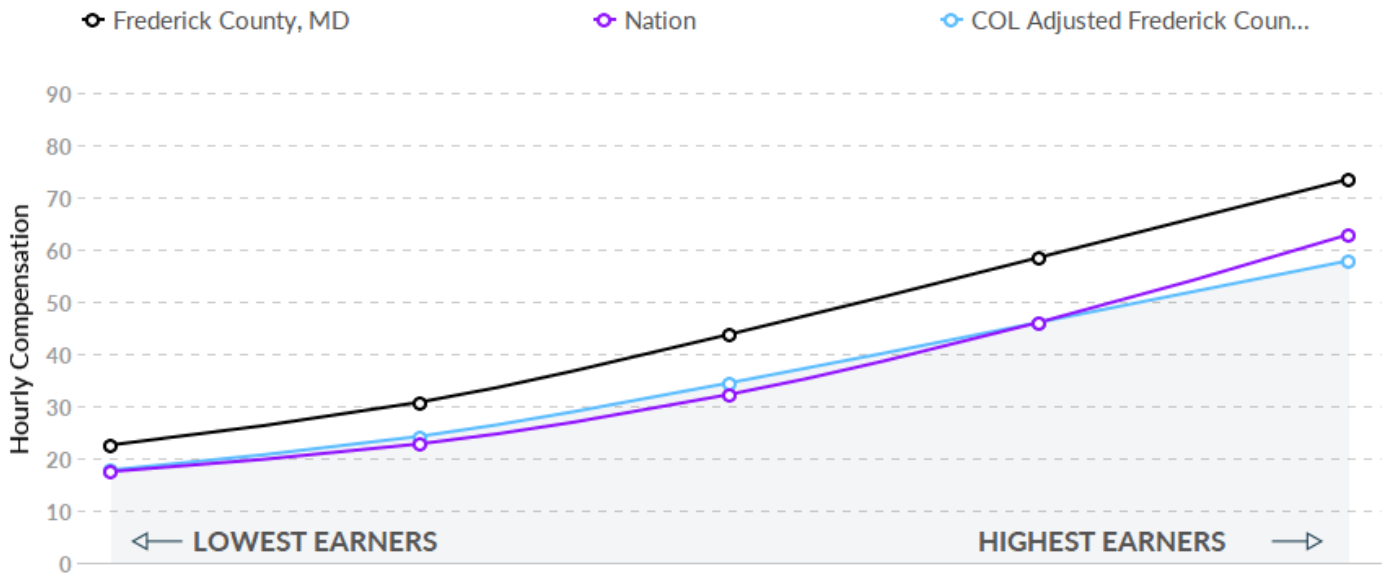


| | % of Jobs | Jobs |
|---------------------------------------------------------------------------------------------|-----------|-------|
|  Males | 47.9% | 1,167 |
|  Females | 52.1% | 1,271 |

Compensation

Talent Is 36% More Expensive, While the Cost of Living Should Make Attraction Easier

In 2018, the median compensation for Life, Physical, and Social Science Occupations in Frederick County, MD is \$43.74/hr. Based on the national median wage of \$32.23/hr for this position, this means you will spend about 36% more to employ Life, Physical, and Social Science Occupations here. However, their actual purchasing power will be 7% greater than the national median when we adjust for regional cost of living (which is 27% higher than average). This may make it easier to attract talent to the region at this price.



Demand



218 Employers Competing

All employers in the region who posted for this job over the last 12 months.



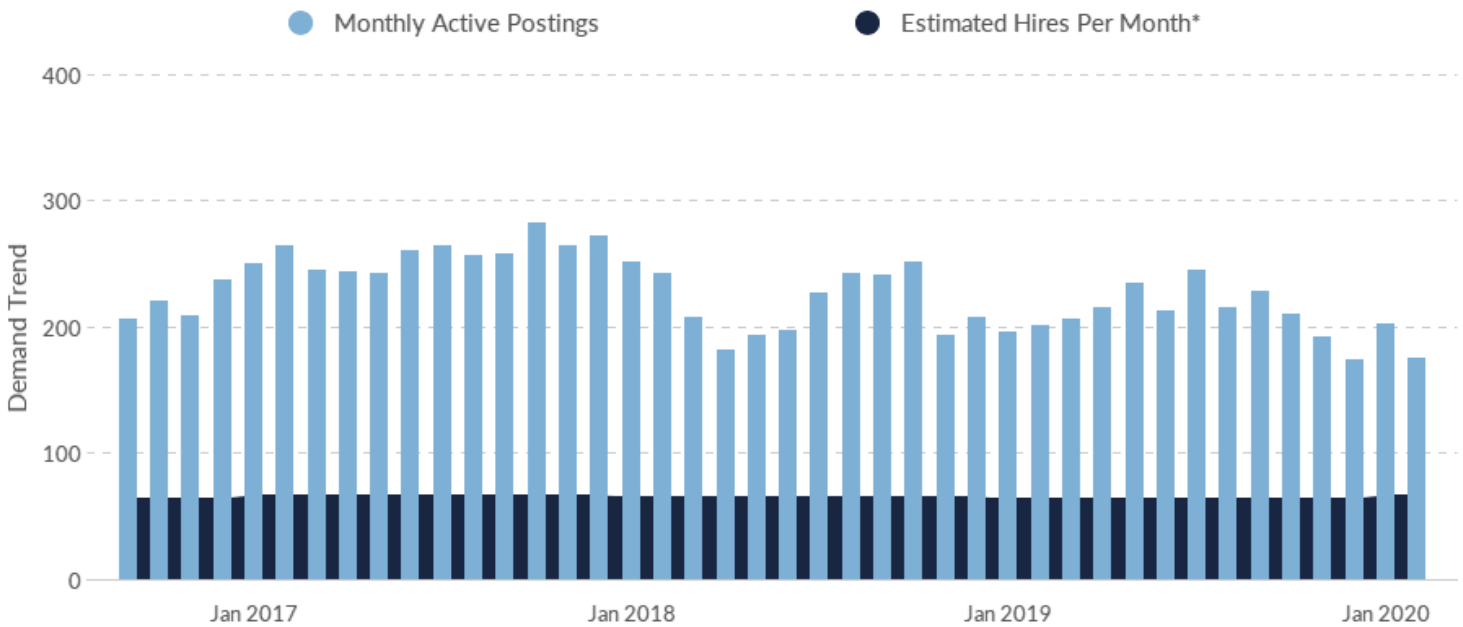
930 Unique Job Postings

The number of unique postings for this job over the last 12 months.



45 Day Median Duration






Posting duration is 12 days longer than what's typical in the region.



| Occupation | Avg Monthly Postings (Mar 2019 - Feb 2020) | Avg Monthly Hires (Mar 2019 - Feb 2020) |
|------------------------------------------------|--------------------------------------------|-----------------------------------------|
| Life, Physical, and Social Science Occupations | 210 | 65 |

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Emsi hires are calculated using a combination of Emsi jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

| Top Companies | Unique Postings |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Frederick National Laboratory Fo... | 160  |
| ASTRAZENECA PLC | 45  |
| Lonza Inc. | 36  |
| Thermo Fisher Scientific Inc | 34  |
| Battelle Memorial Institute | 24  |

| Top Job Titles | Unique Postings |
|---------------------------------------|------------------------------------------------------------------------------------------|
| Psychologists (Life, Physical, and... | 58  |
| Research Associates (Life, Physi... | 49  |
| Quality Control Analysts | 36  |
| Laboratory Technicians (Life, Ph... | 35  |
| Postdoctoral Research Fellows | 35  |

Graduate Pipeline



21 Programs

296 programs can train for this job, while only 21 programs have produced completers in this region.



392 Completions (2018)

The completions from all regional institutions for all degree types.



236 Openings (2018)

The average number of openings for an occupation in the region is 19.

| Top Programs | Completions (2018) |
|------------------------------------|--------------------|
| Biology/Biological Sciences, Ge... | 37 |
| Criminology | 36 |
| Sociology | 34 |
| Social Sciences, General | 32 |
| History, General | 32 |

| Top Schools | Completions (2018) |
|-----------------------------|--------------------|
| Mount St. Mary's University | 193 |
| Hood College | 122 |
| Frederick Community College | 77 |