

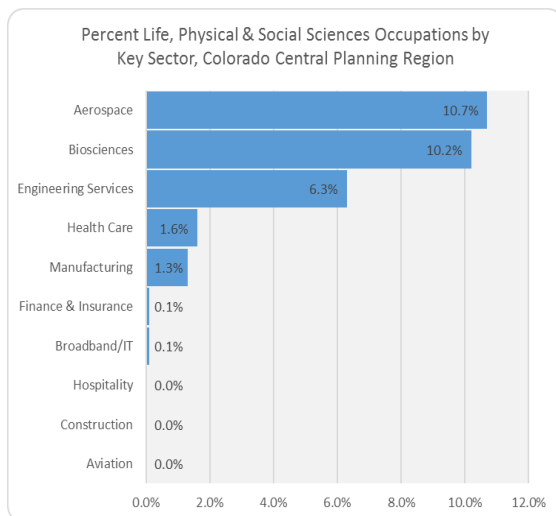
**Career Pathways**  
**Core Business Group**  
**Life, Physical & Social Science Occupations**

All industries are made up of three groups of people:

- The **core business group**, which produce the goods or provide the services
- The **business operations group**, which is charged with advertising, marketing, budgeting and sales
- The **administration & support** group, which performs tasks that support the core and business operations groups

| Employment by Occupational Grouping, Colorado Central Planning Region |  |           |           |        |                |
|---|--|-----------|-----------|--------|----------------|
| SOC   | Description                                    | 2015 Jobs | 2020 Jobs | Change | Percent Change |
| 19-1000   | Life Scientists                                | 4,710     | 5,263     | 553    | 11.7%          |
| 19-2000   | Physical Scientists                            | 9,337     | 10,416    | 1,079  | 11.6%          |
| 19-3000   | Social Scientists and Related Workers          | 4,732     | 5,224     | 492    | 10.4%          |
| 19-4000   | Life, Physical, and Social Science Technicians | 5,679     | 6,397     | 718    | 12.6%          |

Source: EMSI 2015.3 QCEW, Non-QCEW & Self-Employed Class of Worker



There are four distinct occupational groups in the Life, Physical & Social Sciences occupational family. Though the most numerous group are physical scientists, the occupational family offers numerous opportunities to those without a four-year degree. Approximately 14% of employment in this occupational family has an associate's degree.

Life, physical and social science occupations make up about 1.4% of total employment in the region, but these skills are critical to several key industry sectors. The table shows that these occupations can be found in a variety of industry groups and which key sectors employ the greatest number of people in life, physical and social sciences.

**Arapahoe County**  
**Centennial Workforce Center**  
6964 S. Lima Street  
Centennial, Colorado 80112  
Phone: 303.636.1160  
Fax: 303.636.1250

**Arapahoe County**  
**Aurora Workforce Center**  
15400 E. 14<sup>th</sup> Place  
Aurora, Colorado 80011  
Phone: 303.636.2013  
Fax: 303.636.2020

[www.adworks.org](http://www.adworks.org)

| Life, Physical & Social Sciences, Denver-Aurora-Lakewood MSA, Boulder & Larimer Counties |  |           |           |                    |                      |                                 |
|--|--|-----------|-----------|--------------------|----------------------|---------------------------------|
| SOC  | Description  | 2016 Jobs | 2020 Jobs | 2016 - 2020 Change | 2016 - 2020 % Change | Typical Entry Level Education   |
| 19-1011  | Animal Scientists  | 25        | 27        | 2                  | 8.0%                 | Doctoral or professional degree |
| 19-1012  | Food Scientists and Technologists                                  | 192       | 215       | 23                 | 12.0%                | Bachelor's degree               |
| 19-1013  | Soil and Plant Scientists  | 360       | 389       | 29                 | 8.1%                 | Bachelor's degree               |
| 19-1021  | Biochemists and Biophysicists                                      | 490       | 557       | 67                 | 13.7%                | Doctoral or professional degree |
| 19-1022  | Microbiologists  | 447       | 476       | 29                 | 6.5%                 | Bachelor's degree               |
| 19-1023  | Zoologists and Wildlife Biologists                                 | 300       | 323       | 23                 | 7.7%                 | Bachelor's degree               |
| 19-1029  | Biological Scientists, All Other                                   | 387       | 411       | 24                 | 6.2%                 | Bachelor's degree               |
| 19-1031  | Conservation Scientists  | 816       | 840       | 24                 | 2.9%                 | Bachelor's degree               |
| 19-1032  | Foresters  | 178       | 190       | 12                 | 6.7%                 | Bachelor's degree               |
| 19-1041  | Epidemiologists  | 230       | 239       | 9                  | 3.9%                 | Master's degree                 |
| 19-1042  | Medical Scientists, Except Epidemiologists                         | 1,350     | 1,511     | 161                | 11.9%                | Doctoral or professional degree |
| 19-1099  | Life Scientists, All Other   | 64        | 74        | 10                 | 15.6%                | Bachelor's degree               |
| 19-2011  | Astronomers  | 26        | 27        | 1                  | 3.8%                 | Doctoral or professional degree |
| 19-2012  | Physicists   | 562       | 603       | 41                 | 7.3%                 | Doctoral or professional degree |
| 19-2021  | Atmospheric and Space Scientists                                   | 1,561     | 1,646     | 85                 | 5.4%                 | Bachelor's degree               |
| 19-2031  | Chemists   | 1,605     | 1,708     | 103                | 6.4%                 | Bachelor's degree               |
| 19-2032  | Materials Scientists   | 90        | 99        | 9                  | 10.0%                | Bachelor's degree               |
| 19-2041  | Environmental Scientists and Specialists, Including Health         | 2,609     | 2,847     | 238                | 9.1%                 | Bachelor's degree               |
| 19-2042  | Geoscientists, Except Hydrologists and Geographers                 | 2,292     | 2,545     | 253                | 11.0%                | Bachelor's degree               |
| 19-2043  | Hydrologists   | 347       | 367       | 20                 | 5.8%                 | Master's degree                 |
| 19-2099  | Physical Scientists, All Other                                     | 508       | 536       | 28                 | 5.5%                 | Bachelor's degree               |
| 19-3011  | Economists   | 290       | 319       | 29                 | 10.0%                | Master's degree                 |
| 19-3022  | Survey Researchers   | 107       | 140       | 33                 | 30.8%                | Master's degree                 |
| 19-3031  | Clinical, Counseling, and School Psychologists                     | 2,706     | 2,898     | 192                | 7.1%                 | Doctoral or professional degree |
| 19-3032  | Industrial-Organizational Psychologists                            | 22        | 25        | 3                  | 13.6%                | Master's degree                 |
| 19-3039  | Psychologists, All Other   | 240       | 257       | 17                 | 7.1%                 | Master's degree                 |
| 19-3041  | Sociologists   | 19        | 20        | 1                  | 5.3%                 | Master's degree                 |
| 19-3051  | Urban and Regional Planners  | 560       | 603       | 43                 | 7.7%                 | Master's degree                 |
| 19-3091  | Anthropologists and Archeologists                                  | 156       | 168       | 12                 | 7.7%                 | Master's degree                 |
| 19-3092  | Geographers  | 61        | 66        | 5                  | 8.2%                 | Bachelor's degree               |
| 19-3093  | Historians   | 83        | 85        | 2                  | 2.4%                 | Master's degree                 |
| 19-3094  | Political Scientists   | 32        | 38        | 6                  | 18.8%                | Master's degree                 |
| 19-3099  | Social Scientists and Related Workers, All Other                   | 567       | 584       | 17                 | 3.0%                 | Bachelor's degree               |
| 19-4011  | Agricultural and Food Science Technicians                          | 149       | 166       | 17                 | 11.4%                | Associate's degree              |
| 19-4021  | Biological Technicians   | 2,346     | 2,501     | 155                | 6.6%                 | Bachelor's degree               |
| 19-4031  | Chemical Technicians   | 656       | 722       | 66                 | 10.1%                | Associate's degree              |
| 19-4041  | Geological and Petroleum Technicians                               | 510       | 602       | 92                 | 18.0%                | Associate's degree              |
| 19-4051  | Nuclear Technicians  | 59        | 63        | 4                  | 6.8%                 | Associate's degree              |
| 19-4061  | Social Science Research Assistants                                 | 293       | 327       | 34                 | 11.6%                | Associate's degree              |
| 19-4091  | Environmental Science and Protection Technicians, Including Health | 643       | 717       | 74                 | 11.5%                | Associate's degree              |
| 19-4092  | Forensic Science Technicians                                       | 238       | 249       | 11                 | 4.6%                 | Bachelor's degree               |
| 19-4093  | Forest and Conservation Technicians                                | 275       | 282       | 7                  | 2.5%                 | Associate's degree              |
| 19-4099  | Life, Physical, and Social Science Technicians, All Other          | 673       | 752       | 79                 | 11.7%                | Associate's degree              |
|  | Totals   | 25,125    | 27,219    | 2,094              | 8.3%                 |                                 |

Source: EMSI 2016.1 QCEW, Non-QCEW & Self-Employed Class of Worker

Life, physical and social science occupations are in steady demand throughout the region, and employment in these occupations is expected to grow 8.3% over the next five years.

### ***How can I learn more about life, physical & social sciences career pathways?***

Use the table below to access information on job descriptions, local wage information, training programs, credentials and apprenticeship opportunities. Simply click on each link for the information you need.

| Occupation Information   | Local Wage           | Job Postings         | Training Opportunities   | Credentials                | Apprenticeship Opportunities   |
|--|----------------------|----------------------|--------------------------|----------------------------|--------------------------------|
| <a href="#">Animal Scientists</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Food Scientists and Technologists</a>                                  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Soil and Plant Scientists</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Biochemists and Biophysicists</a>                                      | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Microbiologists</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Zoologists and Wildlife Biologists</a>                                 | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Biological Scientists, All Other</a>                                   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Conservation Scientists</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Foresters</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Epidemiologists</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Medical Scientists, Except Epidemiologists</a>                         | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Life Scientists, All Other</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Astronomers</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Physicists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Atmospheric and Space Scientists</a>                                   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Chemists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Materials Scientists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Environmental Scientists and Specialists, Including Health</a>         | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Geoscientists, Except Hydrologists and Geographers</a>                 | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Hydrologists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Physical Scientists, All Other</a>                                     | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Economists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Survey Researchers</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Clinical, Counseling, and School Psychologists</a>                     | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Industrial-Organizational Psychologists</a>                            | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Psychologists, All Other</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Sociologists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Urban and Regional Planners</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Anthropologists and Archeologists</a>                                  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Geographers</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Historians</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Political Scientists</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Social Scientists and Related Workers, All Other</a>                   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Agricultural and Food Science Technicians</a>                          | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Biological Technicians</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Chemical Technicians</a>   | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Geological and Petroleum Technicians</a>                               | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Nuclear Technicians</a>  | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Social Science Research Assistants</a>                                 | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Environmental Science and Protection Technicians, Including Health</a> | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Forensic Science Technicians</a>                                       | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |
| <a href="#">Forest and Conservation Technicians</a>                                | <a href="#">Wage</a> | <a href="#">Jobs</a> | <a href="#">Training</a> | <a href="#">Credential</a> | <a href="#">Apprenticeship</a> |