2021-22 Recent Graduate Surveys
A Look at Emerging Trends

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Exit Survey 2021-22

- Canvassed December, May, and August Graduates
- US Geoscience Degree Recipients
Look at Graduating Demographics
Degree Awarded by Respondents, 2021-22

- Bachelor’s (55.5%)
- Master’s (23.5%)
- Ph.D. (21.0%)
Gender Identity of Respondents, by Degree Level, 2021-22

BS Female (53.1%)
BS Male (41.4%)
BS Other (5.5%)

PhD Female (52.7%)
PhD Male (43.6%)
PhD Other (3.6%)

MS Female (52.5%)
MS Male (42.4%)
MS Other (5.1%)
Respondents of Hispanic Heritage, 2021-22

Percent of respondents

<table>
<thead>
<tr>
<th>Degree</th>
<th>BS</th>
<th>MS</th>
<th>PhD</th>
</tr>
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<tbody>
<tr>
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<td>14</td>
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</tbody>
</table>
Field of Degree, Bachelor's, 2021-22

- Geology (57.6%)
- Environ Geoscience (12.8%)
- Earth Science (9.3%)
- Other (4.1%)
- Geophysics (1.7%)
- Atmospheric Science (2.3%)
- GIS & Tech (0.6%)
- Chemical Oceanography (0.6%)
- Meteorology (0.6%)
- Climatology (0.6%)
- Geological Oceanography (0.6%)
- Geological Eng (0.6%)
- Hydrology (0.6%)

Total: 100%
Field of Degree, Master's, 2021-22

- Geology (47.9%)
- Earth Science (8.2%)
- Atmospheric Science (6.8%)
- Other (5.5%)
- Geophysics (4.1%)
- Geophysical Eng (2.7%)
- Geochemistry (2.7%)
- Geomorphology (2.7%)
- Paleontology (4.1%)
- GIS & Tech (4.1%)
- Environ Geoscience (1.4%)
- Environ Science (2.7%)
- Planetary Science (1.4%)
- Hydrology (1.4%)
- Chemical Oceanography (1.4%)
- Economic Geology (1.4%)
- Geography (1.4%)
### Field of Degree, Doctorate, 2021-22

<table>
<thead>
<tr>
<th>Field of Degree</th>
<th>Subfield</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Earth Science</td>
<td>Geology</td>
<td>26.2%</td>
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<tr>
<td></td>
<td>Earth Science</td>
<td>15.4%</td>
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<tr>
<td></td>
<td>Geochemistry</td>
<td>4.6%</td>
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<td></td>
<td>Petrology</td>
<td>4.6%</td>
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<td></td>
<td>Paleontology</td>
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<td></td>
<td>Hydrology</td>
<td>6.2%</td>
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<td></td>
<td>Climate</td>
<td>3.1%</td>
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<td></td>
<td>Physical Oceanography</td>
<td>1.5%</td>
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<tr>
<td></td>
<td>Other</td>
<td>3.1%</td>
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<tr>
<td></td>
<td>Atmospheric Science</td>
<td>3.1%</td>
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<td>Soil Science</td>
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<td></td>
<td>Geomorphology</td>
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Source: AGI

American Geosciences Institute
Connecting Earth, Science, and People
Citizenship Status of Graduates

- Clear impacts of
  - Trump Administration Policies
  - Stress in Relationship with China
  - COVID-19
Citizenship Status of Bachelors Recipients, 2021-22

US Citizen (92.4%)
Student visa (4.6%)
Permanent resident (2.3%)

Citizenship Status of Masters Recipients, 2021-22

US Citizen (93.3%)
Student visa (5.0%)

Citizenship Status of Doctorate Recipients, 2021-22

US Citizen (70.9%)
Student visa (21.8%)
Permanent resident (3.6%)
When Students Decided on a Geoscience Degree, 2021-22

Percentage of students

<table>
<thead>
<tr>
<th>Degree</th>
<th>Pre-College</th>
<th>Other</th>
<th>After Prior Degree</th>
<th>After Year 1</th>
<th>After Year 2</th>
<th>After Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS</td>
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<td>PhD</td>
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Educational Experience
Complementary Science Courses by Degree Level, 2021-22

Percent of graduates

Algebra Physics

Calculus Physics

Chemistry

BS
MS
PhD

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Number of Field Courses Taken, by Degree Level, 2021-22

Percent of graduates

BS
MS
PhD

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Number of Research Experiences - REU vs. non-REU Students, 2021-22

Percent of bachelors recipients

- Four or more
- 3
- 2
- 1

Reu Students
Non-REU Students
Research methods used by degree level, 2021-22

Percent of graduates

BS  MS  PhD

Computer App | Programming | Field | Lab | Literature

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Sources of Financial Support, by Degree Level, 2021-22
Percentage of graduates

- **BS**
- **MS**
- **PhD**

**Personal Family**
**Loan**
**Federal Grant**
**GI Bill**
**Work Study**
**Research Asst**
**Teaching Asst**
**Ext. Schol.**
**Inst Schol.**
**Dept Schol.**
Next Steps for Students
Next Educational Intent by Degree Level and Gender, 2021-22
Percent of graduates

- BS Female
- BS Male
- MS Female
- MS Male
- PhD Female
- PhD Male

Legend:
- Pending
- Rejected
- Accepted
Employment Status at Graduation by Degree Level, 2021-22

Percent of graduates

- BS
- MS
- PhD

Legend:
- Out of Workforce
- Not Looking, Temp
- Seeking Non-Geo
- Seeking Geo
- Cont Education
- Employed, not Geo
- Employed, Geo

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Multiple Offers of Employment by Graduation by Degree Level, 2021-22

Percent of employed graduates

- BS
- MS
- PhD

Legend:
- None
- In-Geoscience
- Both Geo and Non-Geo
- Non-Geoscience
Employment Sector for Bachelor's Graduates, 2021-22

- **Prof Services (27%)**
  - Mining (4%)
  - Waste Mgmt (4%)
  - Construction (4%)
  - Federal (6%)
- **Food Service (4%)**
- **Info Services (2%)**
- **K-12 Education (2%)**
- **Non-Profit (6%)**
- **Other (4%)**
- **4YC (12%)**
- **Health Care (2%)**
- **Manufacturing (2%)**
- **Retail (2%)**
- **Research Institute (4%)**
- **Utilites (4%)**
- **Ag (2%)**
- **Manufacturing (2%)**
- **Retail (2%)**
- **K-12 Education (2%)**
- **Other (4%)**

**Employment Sector for Bachelor’s Graduates, 2021-22**

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Prof Services (35%)

Construction (4%)

Federal (17%)

Oil & Gas (4%)

Non-Profit (9%)

State (13%)

Mining (13%)

4YC (4%)

Employment Sector for Master's Graduates, 2021-22
Employment Sector for Doctoral Graduates, 2021-22

- Federal (18%)
- Non-Profit (5%)
- State (3%)
- Prof Services (3%)
- Research Institute (8%)
- Real Estate (3%)
- 4YC (58%)
- 2YC (3%)
Graduates Pursuing Professional Credentials, 2021-22

Intended Credentials by Degree Level, 2021-22