Trends in Degree Demographics in Fields Relevant to NCAR

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All data (unless otherwise noted) is from the “The Integrated Postsecondary Education Data System (IPEDS)” which is conducted by the Department of Education's National Center for Education Statistics (NCES). Data accessed via http://webcaspar.nsf.gov/. This data is sometimes different than the “NSF Survey of Earned Doctorates” at the PhD level, but it includes degrees at other levels (Masters and PhD) that aren’t part of NSF’s survey.
Resident population of United States, by race/ethnicity and age: 2006

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).
Underrepresented minority share of S&E graduate students, by field: 1996 and 2006

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).
Degrees by Race/Ethnicity and Citizenship

– Race/Ethnicity
  • US citizens and permanent residents who are white, Asian, or of Unknown race/ethnicity
  • US citizens and permanent residents who are Black, Hispanic, or American Indian/Alaska Native
  • Temporary Residents

– Disciplines
  • Computer Science and Mathematics
  • Aerospace, Mechanical and Electrical Engineering
  • Chemistry, Physics, and Astronomy
  • Atmospheric, Oceanographic, and Earth Science

– Degrees
  • Bachelors (BS and BA)
  • Masters
  • PhD
Bachelors Degrees by Race/Ethnicity and Citizenship
Bachelors by Broad Subject

Earth, Atmos, and Ocean

Chemistry, Physics, and Astronomy

Math and Computer Science

Aerospace, Mechanical, And Electrical Engineering

Math and Computer Science

Note: While Geoscience degrees have declined slightly over 10 years, Atmos degrees have grown by 50%.
Bachelors in Computer Science and Math

~15.5% of degrees are earned by members of underrepresented groups

Note: Citizens = citizens + permanent residents.
~12% of degrees are earned by members of underrepresented groups.
Bachelors in Astronomy, Chemistry, or Physics

~13% of degrees are earned by members of underrepresented groups

Number of Degrees

Year

Note: Citizens = citizens + permanent residents.
~5.4% of degrees are earned by members of underrepresented groups, 4.5% in atmospheric sciences.
Masters Degrees by Race/Ethnicity and Citizenship
MSs in Computer Science and Math

~6.8% of all degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
MSs in Aerospace, Electrical and Mechanical Engineering

~5% of all degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
Mss in Astronomy, Chemistry, or Physics

~6.7% all of degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
MSs in Atmospheric Science, Earth Science or Oceanography

~3.9% of all degrees to members of under-represented groups, but only 2.7% for atmospheric science alone

Note: Citizens = citizens + permanent residents.
PhDs by Race/Ethnicity and Citizenship
PhDs in Astronomy, Chemistry, or Physics

~3.8% of degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
PhDs in Aerospace, Electrical and Mechanical Engineering

~3% of all degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
~3.0% of all degrees to members of under-represented groups

Note: Citizens = citizens + permanent residents.
PhDs in Atmospheric Science, Earth Science or Oceanography

~2.5% of all degrees to members of under-represented groups, but only 2.0% for atmospheric science alone

Note: Citizens = citizens + permanent residents.
Degrees by Gender

– Gender
  • All Degrees by Gender (Citizens, Permanent residents and Temporary Residents)

– Disciplines
  • Computer Science and Mathematics
  • Aerospace, Mechanical and Electrical Engineering
  • Chemistry, Physics, and Astronomy
  • Atmospheric, Oceanographic, and Earth Science

– Degrees
  • Bachelors (BS and BA)
  • Masters
  • PhD
BS by Gender (US citizens and temporary residents)
BS Degrees in Atmos, Ocean, and Earth Sciences by Gender

Year
- 1996
- 1997
- 1998
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006

Number of degrees
- BS to Males
- BS to Females
Masters by Gender
MS Degrees in CS and Math by Gender

- **Number of degrees**
  - MS to Males
  - MS to Females

The chart shows the trend of MS degrees awarded in Computer Science and Mathematics by gender from 1996 to 2006.
MS Degrees in Astronomy, Chemistry, and Physics by Gender

![Bar chart showing the number of MS degrees by gender from 1996 to 2006.](image_url)

- **Y-axis:** Number of degrees
- **X-axis:** Year (1996 to 2006)
- **Legend:**
  - MS to Males
  - MS to Females

The chart illustrates the trend in the number of MS degrees awarded in Astronomy, Chemistry, and Physics by gender from 1996 to 2006.
MS Degrees in Atmos, Ocean and Earth Sciences by Gender

Year

Number of degrees
0 500 1,000 1,500 2,000

MS to Males
MS to Females

Legend: 
Peach: MS to Males 
Blue: MS to Females
PhDs by Gender
PhD Degrees in Astronomy, Chemistry, and Physics by Gender

Number of degrees

Year


PhD to Males  PhD to Females
PhD Degrees in Aerospace, Mechanical, and Electrical Engineering by Gender

Year

PhD to Males

PhD to Females
PhD Degrees in CS and Math by Gender

Year:
- 1996
- 1997
- 1998
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006

Number of degrees:
- 0
- 500
- 1,000
- 1,500
- 2,000
- 2,500
- 3,000
- 3,500
- 4,000

Categories:
- PhD to Males
- PhD to Females

Legend:
- PhD to Males
- PhD to Females
Degree and Population Trends by Disability Status
U.S. civilian noninstitutionalized population 5 years old and older, by disability status and age: 2006

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).
Employed scientists and engineers, by disability status and age: 2006

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).
Students with disabilities as a percentage of undergraduate and graduate students, by field: 2004

In 2006, about 2.9% of PhDs in Atmos, Ocean and Earth Sciences were earned by Students with Disabilities

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).
<table>
<thead>
<tr>
<th>Field</th>
<th>All recipients</th>
<th>No disability</th>
<th>With disability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
</tr>
<tr>
<td>S&amp;E</td>
<td>29,854</td>
<td>100.0</td>
<td>306</td>
</tr>
<tr>
<td>Science</td>
<td>22,663</td>
<td>75.8</td>
<td>268</td>
</tr>
<tr>
<td>Agricultural sciences</td>
<td>1,033</td>
<td>3.5</td>
<td>8</td>
</tr>
<tr>
<td>Biological sciences</td>
<td>6,631</td>
<td>22.2</td>
<td>58</td>
</tr>
<tr>
<td>Computer sciences</td>
<td>1,452</td>
<td>4.9</td>
<td>16</td>
</tr>
<tr>
<td>Earth, atmospheric, and ocean sciences</td>
<td>757</td>
<td>2.5</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics and statistics</td>
<td>1,327</td>
<td>4.5</td>
<td>9</td>
</tr>
<tr>
<td>Physical sciences</td>
<td>3,925</td>
<td>13.2</td>
<td>28</td>
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<tr>
<td>Psychology</td>
<td>3,263</td>
<td>10.8</td>
<td>82</td>
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<tr>
<td>Social sciences</td>
<td>4,275</td>
<td>14.3</td>
<td>58</td>
</tr>
<tr>
<td>Anthropology</td>
<td>511</td>
<td>1.7</td>
<td>6</td>
</tr>
<tr>
<td>Area/ethnic studies</td>
<td>130</td>
<td>0.4</td>
<td>6</td>
</tr>
<tr>
<td>Political science</td>
<td>998</td>
<td>3.3</td>
<td>21</td>
</tr>
<tr>
<td>Sociology</td>
<td>602</td>
<td>2.0</td>
<td>8</td>
</tr>
<tr>
<td>Other</td>
<td>2,034</td>
<td>6.8</td>
<td>17</td>
</tr>
<tr>
<td>Engineering</td>
<td>7,191</td>
<td>24.2</td>
<td>38</td>
</tr>
<tr>
<td>Chemical engineering</td>
<td>893</td>
<td>3.0</td>
<td>12</td>
</tr>
<tr>
<td>Electrical engineering</td>
<td>2,133</td>
<td>7.2</td>
<td>6</td>
</tr>
<tr>
<td>Mechanical engineering</td>
<td>1,148</td>
<td>3.9</td>
<td>6</td>
</tr>
<tr>
<td>Other</td>
<td>3,017</td>
<td>10.2</td>
<td>14</td>
</tr>
</tbody>
</table>

NOTE: Respondents are asked if they have a disability and then are asked to mark one or more types of disability (blind/visually impaired, deaf/hard of hearing, physical/orthopedic disability, learning/cognitive disability, vocal/speech disability, or other disability).