Enhancing Your STEM Pipeline

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WHY STEM?

“STEM workers play a key role in the sustained growth and stability of the US economy, and are a critical component to helping the US win the future”

STEM Workforce Employment
Colorado vs. Nation (2013)

<table>
<thead>
<tr>
<th>Category</th>
<th>Colorado</th>
<th>Nation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer and Mathematical</td>
<td>17.0%</td>
<td>15.5%</td>
</tr>
<tr>
<td>Occupations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture and Engineering</td>
<td>7.7%</td>
<td>-0.2%</td>
</tr>
<tr>
<td>Occupations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life, Physical, and Social</td>
<td>28.4%</td>
<td>17.8%</td>
</tr>
<tr>
<td>Science Occupations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15.8%</td>
<td>15.5%</td>
</tr>
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Concentration of STEM Employment
(2013)

Source: EMSI Complete Employment - 2013.2
All Student PS Major

Liberal Arts = 24.46%
Undecided = 14.69%

All Degrees Awarded (2012)
Women are less likely than men are to declare a STEM major in college.

Intent of First-Year College Students to Major in Science and Engineering Fields, by Gender, 2006

Women’s representation among STEM bachelor’s degree holders has improved over time but varies by field.

Bachelor’s Degrees Earned by Women in Selected Fields, 1966–2006
Women are underrepresented in many science and engineering occupations.

**Percentage of Employed STEM Professionals Who Are Women, Selected Professions, 2008**

- Biological scientists
- Chemists and materials scientists
- Environmental scientists and geoscientists
- Computer scientists and systems analysts
- Computer programmers
- Computer software engineers
- Chemical engineers
- Civil engineers
- Electrical and electronics engineers
- Mechanical engineers

Women are underrepresented in many science and engineering occupations.

**Gender Demographics (2003-2013)**

- Computer and Mathematical Occupations
- Life, Physical, and Social Science Occupations
- Architecture and Engineering Occupations

Source: EMSI Complete Employment - 2013.2