The college of engineering ranks among the leaders in the world for engineering research and education. Engineering fosters an environment for innovation and entrepreneurial spirit and as a top 10 engineering college, provides exciting opportunities for interdisciplinary research. It’s the second smallest school in the top 20 engineering colleges, with opportunity for true interdisciplinary research.

**PROGRAMS**

- Biomedical Engineering*
- Chemical Engineering (BS)
- Civil Engineering (BS)
- Electrical and Computer Engineering (BS)
- Engineering and Public Policy*
- Materials Science and Engineering (BS)
- Mechanical Engineering (BS)
- Music and Technology (BS)

*May be taken as an additional major only.

**FACULTY**

- Electrical & Computer Engineering: 37%
- Civil & Environmental Engineering: 12%
- Mechanical Engineering: 14%
- Chemical Engineering: 12%
- Engineering & Public Policy: 7%
- Biomedical Engineering: 6%

**Notable Faculty**

David Brumley and Jeanne M. VanBriesen are 2015 Carnegie Science award winners.

- Brumley, ECE, is the director of CyLab, the university’s cybersecurity lab. He spearheads picoCTF, a national cybersecurity game and contest targeted at exciting young minds about computer security.
- VanBriesen, CEE, has conducted water-quality research for the past 15 years, focusing on combined sewer overflows, drinking water quality and the impacts of resource extraction. Her research on the treatment and discharge of drilling wastewater was instrumental in developing Pennsylvania state policy.

**FIRST-YEAR STUDENTS**

- Electrical & Computer Engineering: 35%
- Chemical Engineering: 18%
- Materials Science & Engineering: 10%
- Civil & Environmental Engineering: 10%
- Mechanical Engineering: 27%

**Favorite First-Year Courses**

- Discipline specific Intro to Engineering
- Biology
- Differential and Integral Calculus
- Chemistry
- Economics
- Language Courses
- Physics

**Engineering Admitted Student Statistics**

<table>
<thead>
<tr>
<th>SATCR</th>
<th>SATM</th>
<th>SATWR</th>
<th>ACTE</th>
<th>ACTM</th>
<th>ACTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>680-760</td>
<td>750-800</td>
<td>690-780</td>
<td>33</td>
<td>34</td>
<td>33</td>
</tr>
</tbody>
</table>

Rank 4% GPA 3.87

More than 60% of undergrads conduct cutting-edge research. Create new knowledge. Advance their fields. Publish results.
Impact-a-Thon
In this hackathon-like contest, students focus on trying to solve a social issue. Last year, teams created temporary and affordable shelters for the homeless.

DefCon
For the past three years, CMU’s cybersecurity team, The Plaid Parliament of Pwning, has won or placed 2nd at the DefCon Capture the Flag competition, which is considered the “World Series of Hacking.”

Chemical Cars
The CMU ChemE Car Competition team competed at the AIChE’s Mid-Atlantic Regional Conference, and one of their cars won Most Innovative Design Award for its combination combustion engine/bleach clock mechanism.

Build18
The Department of Electrical & Computer Engineering invites undergraduates from around the college to compete in a week of tinkering on self-proposed, creative projects to promote the playful aspects of engineering.

Alumni Accomplishments
Carolyn Duran (E’92) and Merline Saintil (CMU’05) were named to Business Insider’s list of the 22 Most Powerful Women Engineers in the World.

Sameer Khaitan (E’06), an environmental specialist at The World Bank in New Delhi, India, is working on the India National Ganga River Basin Project, which involves the cleanup of the Ganges River. This project will improve the lives of millions of people by enhancing sanitary and hygienic conditions.

Shoefitr, a startup company co-founded by Matt Wilkinson (E’06), Nick End (E’06) and Breck Fresen (CS’09), was recently acquired by Amazon.

DID YOU KNOW?
1. Over 25 National Science Foundation Fellowships were received by our seniors to study in various graduate schools in the last five years. The fellowship includes over $40,000 per year stipend/cost of education allowance.

2. Students are assigned an adviser from the College of Engineering Undergraduate Studies Office for the first year. Advisers work with students beginning in June of the summer before enrolling to help them acclimate and register for courses. We also employ 9–10 upperclass student Virtual Peer Advisers, who help answer incoming student questions, via Facebook and email.

3. All of our B.S. Engineering programs offer integrated M.S. programs so interested students can continue their studies for a coursework-based master’s degree.

4. The College of Engineering is home to 50 elected members of the National Academy of Engineering, an honorary organization founded to advance the well-being of the nation by marshaling the knowledge and insights of eminent engineers.

5. Society of Women Engineers (SWE) student chapter is consistently recognized nationally for its efforts to provide social and professional development opportunities on campus and outreach to the local Pittsburgh community. One major event is coordination and sponsorship of the Technical Opportunities Conference (TOC) each fall where 300 companies come to campus to recruit students for professional opportunities.

6. The College of Engineering is also referred to by students and alumni as CIT, a reference to its original name, the Carnegie Institute of Technology.