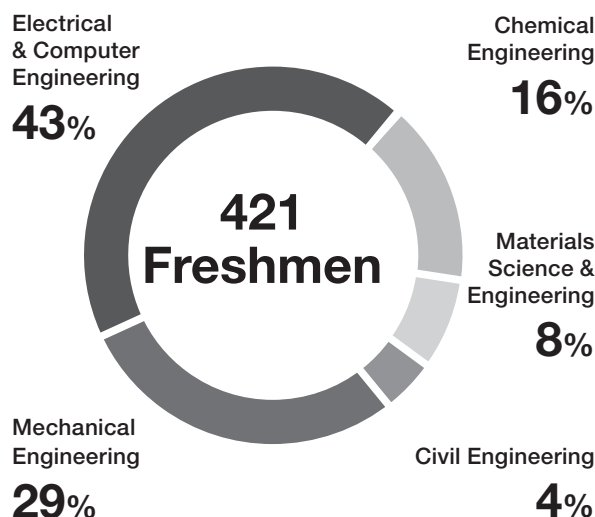


CARNEGIE INSTITUTE OF TECHNOLOGY (COLLEGE OF ENGINEERING)

THE CARNEGIE INSTITUTE OF TECHNOLOGY (ENGINEERING) RANKS AMONG THE LEADERS IN THE WORLD FOR ENGINEERING RESEARCH AND EDUCATION.

Engineering fosters an environment for innovation and entrepreneurial spirit. It's the second smallest school in the top 20 engineering colleges, with opportunity for true interdisciplinary research.

FIRST-YEAR STUDENTS



Favorite First-Year Courses

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

Engineering Admitted Student Statistics

SATCR	SATM	SATWR	ACTC	ACTM	ACTC
680-770	750-800	690-780	33	34	33

Rank 3% GPA 3.87

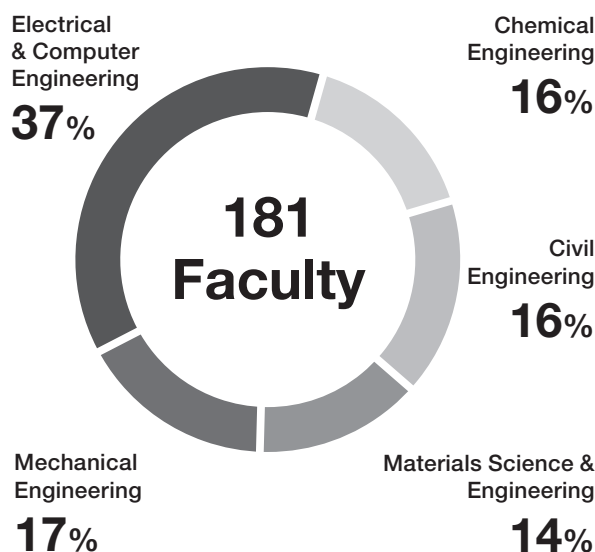
More than 60% of undergrads conduct cutting-edge research. Create new knowledge. Advance their fields. Publish results.

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



Notable Faculty

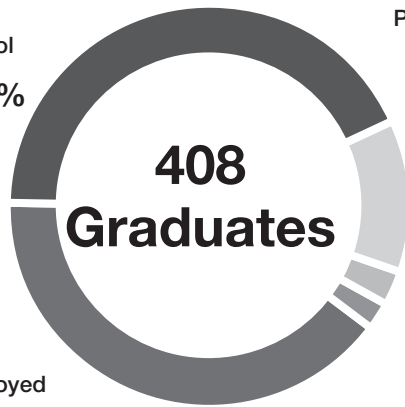
- ☐ Jay Whitacre, MSE and EPP, is the founder of Aquion Energy, a producer of hybrid ion batteries for commercial scale energy storage. He developed a revolutionary use of sodium sulfate (salt water) instead of lithium.
- ☐ Mario Savvides, ECE, is developing a digital system for identifying poisonous plants. He and his team plan to build an app which would identify the plant, using an uploaded photo, and list the plant's appearance, toxicity and remedy/antidote for health care professionals to administer.

Carnegie Mellon

GRADUATE SUCCESS

Grad School
43%

Employed
40%



Plans Pending
12%

Not Reported
3%

Volunteer, Military, Other
2%

Top Employers

accenture



QUALCOMM



Schlumberger

Microsoft

* As of September 5, 2014. Many of the BS grads doing graduate work are split between PhD programs and integrated BS – MS programs that we offer in each department.

Alumni Accomplishments

William O'Donnell (ECE'89) is a member of the startup team for **Kayak**, a top travel booking site.

Henry Thorne (ME'82, '84) combined robotics with a graphic interface and invented **Cye**, the first personal robot. He is also the CEO of 4Moms.

Erin Fitzgerald (ECE'02) is a member of a group from the **National Academy of Engineering (NAE)** who advised Mattel Inc. on Computer Engineering Barbie — Barbie's 126th career.

Student Startups



Hahna Alexander (ME'12) is a member of the team who created **SolePower**, a shoe insert that can charge a cellphone.

Neil Soni (CHE'13) is founder of **CollegeZen**, a website to help high school students explore colleges.

Thomas Healy (ME'14) senior varsity football player, started **Founded Promos On Campus**, a promotional products company for colleges around the country.

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 advisor from the College of Engineering Undergraduate Studies Office for the first year. Advisors 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 Advisors, who help answer incoming student questions, via Facebook and email.

3. All of our BS Engineering programs offer integrated MS programs so interested students can continue their studies for a coursework-based master's degree.

4. The College of Engineering is home to 48 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.

RESEARCH PROJECTS



International Human-Powered Submarine Race Participation

A competition judged on how teams design and build a one- to two-person "wet" submarine, relying on the principles of buoyancy, propulsion, guidance systems and underwater life support, and systems engineering.



ImagiNations

A Mechanical Engineering team created an interactive adventure, "Legenda Emas," which placed second at Disney's ImagiNations Design Competition.



Department of Energy's 2013 "Better Building" Competition

A multidisciplinary team representing engineering, business, policy and architecture, took first place in the challenge to create strategies to cut energy waste and improve the efficiency of commercial buildings nationwide. The team developed methods for a city to make commercial and industrial buildings 20% more efficient by 2020.



Build-18

Electrical & Computer Engineering undergraduate teams spend one week building self-proposed projects and present to the Carnegie Mellon community. Examples include an auto bike transmission, a hologram generator and a Wi-Fi-controlled quadcopter.

Carnegie Mellon University

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