Carnegie Mellon University
Mechanical Engineering

AT A GLANCE

2018–2019 STUDENT POPULATION

825

- B.S. (450)
- M.S. (230)
- Ph.D. (145)

21% of engineering students

FACULTY

CORE

COURTESY

ADJUNCT

11 22 34

ALUMNI

5,900+

Salaries after Graduation

RANKED

By U.S. News & World Report

#10

Mechanical Engineering Graduate Program 2019

College ranked #6

#10

Mechanical Engineering Undergraduate Program 2019

College ranked #6

RESEARCH FUNDING

July 2017–June 2018

$9.8M+

$1.9M+

$300K

PRIVATE

FEDERAL

STATE

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CMUEngineering
A Maker Culture

MechE is leading the broad effort to cultivate a maker ecosystem. Student opportunities for hands-on learning will expand with the new Tech Spark and ANSYS Hall, facilities that add integrated maker spaces, clustered research labs, open workspaces, a simulation lab, classrooms, and a large-bay maker area for building full-scale prototypes and projects.

The Tech Spark opened in December 2017 and ANSYS Hall will follow in 2019.

START-UPS & SPIN-OFFS

Our students and faculty are heavily involved in starting companies.

Some examples:

- Lifeware Labs creates soft, flexible, low-cost, electronic stickers for improved vital sign monitoring.
- SolePower creates energy-harvesting technology for footwear.
- HuMoTech develops exoskeletons for patients to test-drive prosthetic devices.
- PECALabs designs medical devices for pediatric cardiac surgery.

SAMPLING OF STUDENT ORGANIZATIONS

Women in MechE builds connections through mentoring, outreach, professional, and social events.

Carnegie Mellon Racing designs and builds an electric Formula 1 style race car to compete with teams globally. In 2018, the team won first place in competitions in Lincoln, Nebraska and Ontario, Canada.

The ASME student chapter offers learning experiences and activities about the mechanical engineering profession.

Carnegie Mellon Rocket Command earned the Altitude Award during the NASA Student Launch Competition at Marshall Space Flight Center in 2018, coming closest to NASA’s one-mile target launch altitude.

Master Makers offers hands-on learning experiences like design and robotic competitions for graduate students.

The Tartan Ice Drilling System team was a top 10 finalist in the NASA RASC-AL Mars Ice Challenge, competing to extract the most water from a simulated Martian ice deposit in 2018.

SAMPLING OF RECENT EMPLOYERS

Product Design
AE Dreams, Autodesk, Disney, Proctor & Gamble

Academic & Research
MIT, Stanford, UC Berkeley, National Energy Technology Laboratory, ETH

Petroleum/Oil & Gas Services
DOW Chemical, ExxonMobil, Schlumberger

Automotive
Ford, General Motors, Hyundai, Tesla

Robotics
Amazon Robotics, Roush Fenway Racing, Uber

Banking & Consulting
BNY Mellon, Capital One, IBM Global Business Services

Tech
Amazon, Apple, Fitbit, Google, Intel, Microsoft

Aerospace
Boeing, Lockheed Martin, NASA JPL, Raytheon, SpaceX

Energy
Byrne Electrical Specialists, GE, kW Engineering

Healthcare
Abbot Labs, GlaxoSmithKline, Philips Healthcare, St. Jude

SAMPLING OF AWARDS

Forbes 40 Under 40
Toyota Mother of Invention
NSF Career Awards