Carnegie Mellon University
Mechanical Engineering

2019–2020 STUDENT POPULATION

813

- B.S. (420)
- M.S. (226)
- Ph.D. (167)

21% of Engineering Students

FACULTY

- CORE
- COURTESY
- ADJUNCT

9 21 35

ALUMNI

6,050+

Salaries after Graduation as of 2018

RANKED

By U.S. News & World Report

#9 Mechanical Engineering Graduate Program 2021
College ranked #4

#9 Mechanical Engineering Undergraduate Program 2020
College ranked #6

RESEARCH FUNDING

July 2018–June 2019

$10.4M+

PRIVATE

$3M+

FEDERAL

$500K

STATE
A Maker Culture

MechE is leading the broad effort to cultivate a maker ecosystem. Student opportunities for hands-on learning were expanded with 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.


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

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 AWARDS

Forbes 40 Under 40
Toyota Mother of Invention
NSF Career Awards

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. The 2019 team won first place in the Ontario, Canada competition.

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.