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

9

Courtesy

21

Adjunct

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+

$3M+

$500K

Private

Federal

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 REWARDS

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.