

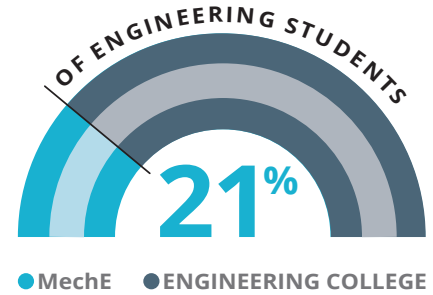
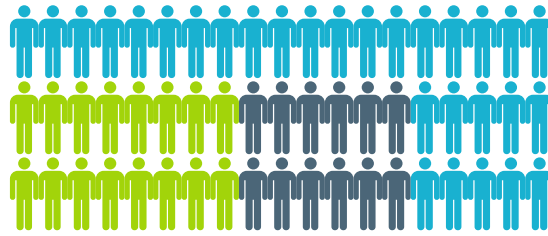
# Carnegie Mellon University Mechanical Engineering

# AT A GLANCE

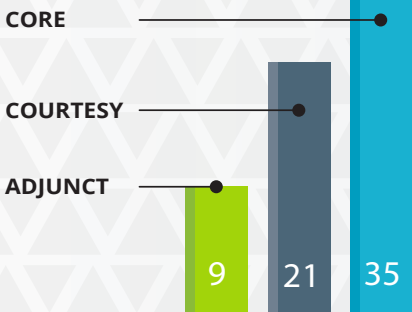
## 2019-2020 STUDENT POPULATION

# 813

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



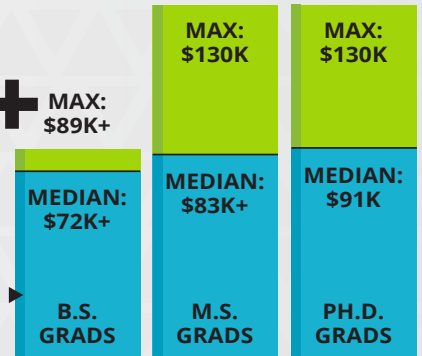
## FACULTY



## ALUMNI

# 6,050+

Salaries after Graduation as of 2018 ▶



## RANKED

By U.S. News & World Report



Mechanical Engineering Graduate Program 2021

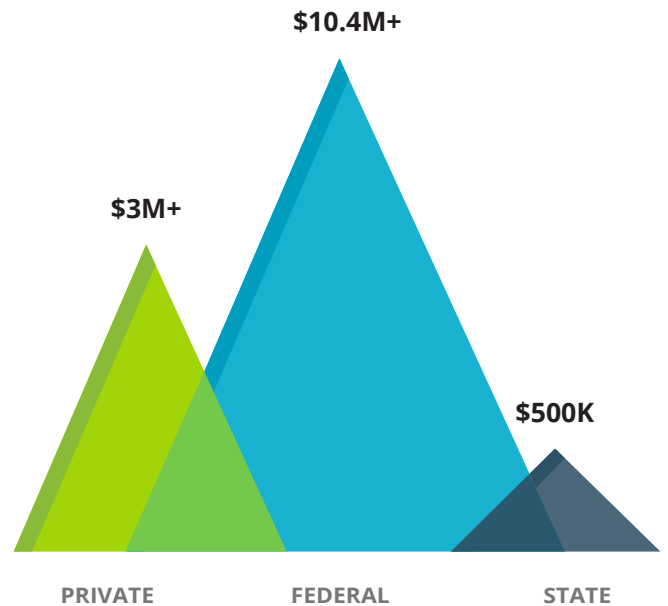
College ranked #4

Mechanical Engineering Undergraduate Program 2020

College ranked #6

## RESEARCH FUNDING

July 2018-June 2019



# 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.

The Tech Spark opened in 2017 and ANSYS Hall opened in 2019.

## 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



## 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.