

# Mechanical Engineering at Rutgers

**A**re you interested in finding new ways for producing sustainable, clean, and affordable energy; developing innovative technologies for improving health, designing innovative prosthetics, developing the new generation of 3D printers, or building original robots? Virtually every object around us has passed through the hands of a mechanical engineer, making this field of engineering one of the most broad-based and extending into a wide range of industries, including robotics, energy generation and distribution, advanced manufacturing, automotive, aerospace, naval, materials development, pharmaceuticals and mechanobiology, and much more.

At Rutgers, mechanical engineering is about learning how to conceive new ideas and bring them to life through design and manufacturing. Students acquire basic principles in design, analysis, and modeling of physical components and processes, while building core knowledge in fluids, thermal, and structures.

## Mechanical Engineering Degrees Offered and Curricular Options

### BS

Concentrations:

- Aerospace
- Energy

### BS/BA Dual Degree

### BS/MS Five-year Dual Degree Program

### BS/MBA Five-year Dual Degree Program

### MS ME PhD

## ME Highlights

- » Among top 50 graduate engineering programs (USNWR rankings).
- » Leading-edge facilities include rapid-prototyping facilities and multi-material 3D printer.
- » Design and manufacturing experience begins in sophomore year.
- » Home to the Emil Buehler Supersonic Wind Tunnel.
- » Rutgers Formula Racing Team competes nationally.

**RUTGERS**  
School of Engineering

For more information, visit  
[mae.rutgers.edu](http://mae.rutgers.edu)

**TOP 50 ME**  
GRADUATE ENGINEERING PROGRAMS  
(USNWR)



## WHAT CAN YOU DO WITH A ME DEGREE?

Design and manufacture mechanical devices and machines

Manufacture, characterize, and test prototypes

Computationally analyze tools, engines, and machines

Manage the integration of sensors, controllers, and machinery

Oversee production testing and quality control

Pursue research and development in industrial and government laboratories



*"The Computer Aided Drafting course allowed me to reverse engineer the mechanical components of everyday machines, while teaching me the skills to create models in the machine shop."*

**Raheem O. Balogun**

