

MEng Project Offering for 2016-17

This is a list of MEng Project offerings for 2016-2017, you may also contact individual faculty for additional opportunities. This page will be updated as additional project descriptions become available.

Professor Adie

[Finite element mechanical modeling for dynamic optical coherence elastography](#)

Professor Andarawis-Puri

coming soon

Professor Avedisian

[Design of a Chemical Reactor that Builds Itself](#)

[Design of a More Energy Efficient Ink Jet Printer](#)

Professor Bewley

[Compressible turbulence in a bottle](#)

[Making extraterrestrial sand dunes in a lab](#)

Professor Bonssar

[Loading Device to Enable Non-Surgical Study of Post-Traumatic Osteoarthritis in Rodents](#)

[Methods and Devices for Reshaping Craniofacial Cartilage](#)

[Delivery of Injectable Patches for Intervertebral Disc Repair](#)

[Wearable and Implantable Sensors for Monitoring of Arthritis Patients](#)

Professor Butcher

[Micro-scale Multi-axial mechanical tester for soft tissues](#)

Professor Campbell

[Autonomous Systems Lab](#)

Dr. Diaz Artiles

[Biomechanical Modeling in OpenSim of Exercise Activities using Advance Exercise Concept \(AEC\) Devices](#)

[Cardiovascular Modeling under Artificial Gravity combined with Exercise](#)

Professor Fisher

[Design of a data acquisition system to the study performance of wood-powered combustion equipment](#)

[Sustainable Energy Cookstove Modeling and Design](#)

Professor Hernandez

[Hernandez Group](#)

Professor Hoffman

[A Social Robotic Construction Kit](#)

[Robot for Nonverbal Communication Research](#)

Professor Louge

[Dune Field Research](#)

Professor Peck

[Space Systems Design Studio](#)

Professor Petersen

[3D-Printing Insect Habit](#)

[Electro-Conjugate Fluid Driven Soft Robot](#)

[Soft Braitenberg Vehicles](#)

[Spider-inspired miniature jumping robot](#)

Professor Savransky

[Sciencecenter Moon Pointer](#)

[Space Imaging and Optical Systems Lab](#)

Schaffer-Nishimura Lab

[Study of brain vasculature network mapped using multi-photon laser microscopy in Alzheimer Mouse model using CFD](#)

Professor Selva

[SEAK Lab Meng Projects](#) (Systems Engineering, Architecture, and Knowledge)

Professor Ulinski

[Lucy 3D QA Phantom](#)

[ASML – Super Tapper](#)

[ASML – Piezo Manipulator Athermalization](#)

[TE Robotic Assembly Simulation](#)

Professor van der Meulen

[Reducing ligament strains following osteotomy in the canine stifle](#)

Professor Williamson

[The Aircraft Wake Phenomenon](#)

[Mini Turbines in an Urban Environment](#)

Professor Zehnder

[Design of Materials for Exceptional Fracture Resistance](#)

[Degradation of High Temperature Polymer Matrix Composite due to Moisture](#)

Professor Zhang

[Energy Efficiency at Telecommunication Facilities](#)

[Renewable Energy for Heating and Emergency Preparedness](#)

[Sustainable Design Practice in the Renovated Upson Hall](#)

[The "Power" of Precision Medicine](#)

[Computer-aided tomography \(CAT\) for mapping air pollution](#)

[Renewable New York 2030](#)

Project Teams

The College has a large number of project teams and some MEng students complete their MEng projects related to a team.

[MAE undergraduate research opportunities](#) (many of these offerings are available to MEng students as well)

Department of Biomedical Engineering MEng Projects

Many Biomedical Engineering design project teams find having students with mechanical engineering backgrounds to be an asset.

[BME Faculty MEng Projects](#)

Systems Engineering Projects

[Cornell University Sustainable Design](#)

[Cornell Cup Create an Innovative Modular Robotics Platform](#)