Fung Institute for Engineering Leadership Fire Research Group

Master of Engineering Program

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MEng Departments

Full-time Class Size: 366





Every capstone addresses three phases of the innovation process



Capstone Project Profile

- 100 projects
- 3-6 grad students per team
- Independent projects or "clusters" of projects
- 9 months duration
- Self-funded
- University & industry model
- Cross-functional
- High Performance Team Coaching

Technical Concentrations by Department

Bioengineering:

Micro-electromechanical systems (MEMS)

Systems and synthetic biology

Biomaterials

Civil & Environmental:

Systems

Transportation

Electrical Engineering & Computer Sciences:

Data Science & Systems

Integrated Circuits & Physical Electronics

Robotics & Embedded Software

Signal Processing & Communications

Visual Computing & Computer Graphics

[AR/VR Design Experience]

Industrial Engineering & Operations Research:

General Program

Data Science and Forecasting

FinTech

Materials Science & Engineering:

General Program

Advances in Opto-Electronic Materials

Materials for Adv. Energy Systems Advanced Structural Materials

Mechanical Engineering:

Advanced Energy Technology Modeling + Simulation of Physical Processes & Systems Experiential Advanced Control Systems Design Product Design

Nuclear Engineering:

Fission Reactor Analysis & Engineering

Non-Proliferation

Nuclear Materials

Nuclear Waste & Materials Management

Potential Ideas For Fire Research Group

- Option 1: Create individual Capstone Projects
- Option 2: Create a Capstone Cluster as a platform for collaboration
 - Engineering Departments
 - LBNL
 - Industry partners
 - State agencies
 - Others?
- Provide Grad students and resources
- Leverage Fung Institute Corporate Partnerships