Fung Institute for Engineering Leadership
Fire Research Group

Master of Engineering Program

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MEng Departments

Full-time Class Size: 366

- IEOR 24%
- EECS 21%
- ME 28%
- CEE 22%
- BIOE 10%
- NE 5%
- MSE 6%
Engineering Leadership

Capstone

Technical Courses
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
  - [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
- 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