GRAINGER COLLEGE OF ENGINEERING

Dean: Rashid Bashir
Associate Dean of Undergraduate Programs: Jonathan J Makela
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phone: (217) 333-2151

The Grainger College of Engineering

Undergraduate Programs

Graduate Programs

_departments:

Aerospace Engineering (https://aerospace.illinois.edu/)
Agricultural & Biological Engineering (https://abe.illinois.edu/)
Bioengineering (https://bioengineering.illinois.edu/)
Civil & Environmental Engineering (https://cee.illinois.edu/)
Computer Science (https://cs.illinois.edu/)
Electrical & Computer Engineering (https://ece.illinois.edu/)
Industrial & Enterprise Systems Engineering (https://ise.illinois.edu/)
Materials Science & Engineering (https://matse.illinois.edu/)
Mechanical Science & Engineering (https://mechanical.illinois.edu/)
Nuclear, Plasma & Radiological Engineering (https://npre.illinois.edu/)
Physics (https://physics.illinois.edu/)

Borders:

Technology Entrepreneur Center (https://tec.illinois.edu/)
Computational Science and Engineering (https://cse.illinois.edu/)

Undergraduate Majors and Minors

Majors

• Aerospace Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/aerospace-engineering-bs/)
• Agricultural & Biological Engineering, BS (http://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs/)
• Agricultural Engineering Concentration (http://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs/agricultural-engineering/)
• Biological Engineering Concentration (http://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs/biological-engineering/)
• Agricultural & Biological Engineering, BS and Agricultural & Biological Engineering, BSAG (http://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs-agricultural-biological-engineering-bs-agricultural-science-bsag/) (Dual Degree Program)
• Bioengineering, BS (http://catalog.illinois.edu/undergraduate/engineering/bioengineering-bs/)
• Civil Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/civil-engineering-bs/)
• Computer Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/computer-engineering-bs/)
• Computer Science, BS (http://catalog.illinois.edu/undergraduate/engineering/computer-science-bs/)
• Electrical Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/electrical-engineering-bs/)
• Engineering Mechanics, BS (http://catalog.illinois.edu/undergraduate/engineering/engineering-mechanics-bs/)
• Industrial Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/industrial-engineering-bs/)
• Innovation, Leadership & Engineering Entrepreneurship, BS (http://catalog.illinois.edu/undergraduate/engineering/innovation-leadership-engineering-entrepreneurship-bs/) (ILEE)
• Materials Science Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs/)
• Mechanical Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/mechanical-engineering-bs/)
• Neural Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/neural-engineering-bs/)

Information listed in this catalog is current as of 09/2022
• Nuclear, Plasma, & Radiological Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs/)
• Plasma & Fusion Science & Engineering Concentration (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs/plasma-fusion-science-engineering/)
• Power, Safety & Environment Concentration (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs/power-safety-environment/)
• Radiological, Medical & Instrumentation Applications Concentration (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs/radiological-engineering-radiological-medical-instrumentation-applications/)
• Physics, BS (http://catalog.illinois.edu/undergraduate/engineering/physics-bs/)
• Systems Engineering & Design, BS (http://catalog.illinois.edu/undergraduate/engineering/systems-engineering-design-bs/)

Minors

Bioengineering Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/bioengineering/)
Computational Science & Engineering Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/computational-science-engineering/)
Computer Science Minor (http://catalog.illinois.edu/undergraduate/minors/cs/)
Electrical & Computer Engineering Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/electrical-computer-engineering/)
International Minor in Engineering (http://catalog.illinois.edu/undergraduate/engineering/minors/international-engineering/)
Materials Science & Engineering Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/materials-science-engineering/)
Physics Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/physics/)
Technology & Management Minor (http://catalog.illinois.edu/undergraduate/eng_bus/minors/technology-management/)

Graduate Majors and Concentrations

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Aerospace Engineering, MS (http://catalog.illinois.edu/graduate/engineering/aerospace-engineering-ms/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Aerospace Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/aerospace-engineering-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

**Aerospace Systems Engineering, MENG, see Engineering, MENG**

Agricultural & Biological Engineering, MS (http://catalog.illinois.edu/graduate/engineering/agricultural-biological-engineering-ms/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Agricultural & Biological Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/agricultural-biological-engineering-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

**Autonomy & Robotics, MENG, see Engineering, MENG**

Bioengineering, MENG (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/)
  Bioinstrumentation (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/bioinstrumentation/) | Computational Genomics (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/computational-genomics/) | Entertainment & Innovation (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/entrepreneurship-innovation/) | General Bioengineering (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/general-bioengineering/) | Pharmaceutical Engineering (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/pharmaceutical-engineering/) | Bioengineering, MS (http://catalog.illinois.edu/graduate/engineering/bioengineering-ms/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
Bioengineering, PhD (http://catalog.illinois.edu/graduate/engineering/bioengineering-phd/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Bioinformatics, MS (http://catalog.illinois.edu/graduate/provost/ms_bioinfo/)
  Bioengineering (http://catalog.illinois.edu/graduate/engineering/concentration/bioengineering/bioinformatics/) | Computer Science (http://catalog.illinois.edu/graduate/engineering/concentration/computer-science/bioinformatics/)
Biomedical Image Computing, MS (http://catalog.illinois.edu/graduate/engineering/biomedical-image-computing-ms/)

Chemical Engineering, MS (http://catalog.illinois.edu/graduate/las/chemical-engineering-ms/)
Chemical Engineering, PhD (http://catalog.illinois.edu/graduate/las/chemical-engineering-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/civil-engineering-ms/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Civil Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/civil-engineering-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Computer Science, MCS (http://catalog.illinois.edu/graduate/engineering/computer-science-mcs/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Computer Science, MS (http://catalog.illinois.edu/graduate/engineering/computer-science-ms/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Computer Science, PhD (http://catalog.illinois.edu/graduate/engineering/computer-science-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

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Electrical & Computer Engineering, MEng (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-meng/)
Entrepreneurship & Innovation (http://catalog.illinois.edu/graduate/engineering/concentration/entrepreneurship-innovation/)
Electrical & Computer Engineering, MS (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-ms/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
  Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Electrical & Computer Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-phd/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
  Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Energy Systems, MENG, see Engineering, MENG
Engineering, MENG (http://catalog.illinois.edu/graduate/meng-engineering/)
  Aerospace Systems Engineering (http://catalog.illinois.edu/graduate/engineering/engineering-meng/aerospace-systems/)
  Autonomy & Robotics (http://catalog.illinois.edu/graduate/engineering/engineering-meng/autonomy-robotics/)
  Digital Agriculture (http://catalog.illinois.edu/graduate/engineering/engineering-meng/digital-agriculture/)
  Energy Systems (http://catalog.illinois.edu/graduate/engineering/engineering-meng/energy-systems/)
  Plasma Engineering (http://catalog.illinois.edu/graduate/engineering/engineering-meng/plasma-engineering/)
  Railway Engineering (http://catalog.illinois.edu/graduate/engineering/engineering-meng/railway/)
Environmental Engineering in Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-ms/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Environmental Engineering in Civil Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-phd/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Financial Engineering, MS (http://catalog.illinois.edu/graduate/bus_engineering/financial-engineering-ms/)
  Automated Trading Practices (http://catalog.illinois.edu/graduate/engineering/financial-engineering-ms/automated-trading-practices/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Industrial Engineering, MS (http://catalog.illinois.edu/graduate/engineering/industrial-engineering-ms/)
  Advanced Analytics (http://catalog.illinois.edu/graduate/engineering/concentration/advanced-analytics-industrial-enterprise-systems-engineering/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Industrial Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/industrial-engineering-phd/)

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**M**

Materials Engineering, MENG (http://catalog.illinois.edu/graduate/engineering/materials-engineering-meng/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)

Materials Science & Engineering, MS (http://catalog.illinois.edu/graduate/engineering/materials-science-engineering-ms/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) | Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Materials Science & Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/materials-science-engineering-phd/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) | Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Mechanical Engineering, MENG (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-meng/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) | Entrepreneurship & Innovation (http://catalog.illinois.edu/graduate/engineering/concentration/entrepreneurship-innovation/)

Mechanical Engineering, MS (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-ms/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) | Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Mechanical Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-phd/)

Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) | Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) | Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

**N**

Nuclear, Plasma & Radiological Engineering, MS (http://catalog.illinois.edu/graduate/engineering/nuclear-plasma-radiological-engineering-ms/)

Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Nuclear, Plasma & Radiological Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/nuclear-plasma-radiological-engineering-phd/)

Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

**P**

Physics, MS (http://catalog.illinois.edu/graduate/engineering/physics-ms/)

Physics, PhD (http://catalog.illinois.edu/graduate/engineering/physics-phd/)

Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

**Plasma Engineering, MENG, see Engineering, MENG**

**R**

Railway Engineering, MENG, see Engineering, MENG

**S**

Systems & Entrepreneurial Engineering, MS (http://catalog.illinois.edu/graduate/engineering/systems-entrepreneurial-engineering-ms/)

Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Systems & Entrepreneurial Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/systems-entrepreneurial-engineering-phd/)

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Teaching of Physics, MS (http://catalog.illinois.edu/graduate/engineering/teaching-physics-ms/)
Theoretical and Applied Mechanics, MS (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-ms/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
  Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)
Theoretical & Applied Mechanics, PhD (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-phd/)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
  Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Combination Programs

- Aerospace Engineering, BS-MS (http://catalog.illinois.edu/undergraduate/engineering/aerospace-engineering-bs-ms/)
- Computer Science, BS-MCS (http://catalog.illinois.edu/undergraduate/engineering/computer-science-bs-mcs/)
- Computer Science, BS-MS (http://catalog.illinois.edu/undergraduate/engineering/computer-science-bs-ms/)