GRAINGER COLLEGE OF ENGINEERING

Dean: Rashid Bashir

Associate Dean of Undergraduate Programs: Jonathan J Makela

Associate Dean for Graduate, Professional and Online Programs: Daniel J Bodony

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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/)

Centers:

- 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-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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- X
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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/)  | Entrepreneurship & 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/bioreachnics/)  | 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/bioreachnics/)  | 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/)

F

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/)

I

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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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/)