GRAINGER COLLEGE OF ENGINEERING

Dean: Rashid Bashir
Associate Dean of Undergraduate Programs: Jonathan J Makela
Associate Dean for Graduate, Professional and Online Programs: Harry Dankowicz
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college website: https://grainger.illinois.edu/
Undergraduate Advising: https://grainger.illinois.edu/academics/undergraduate/advising
Graduate Student Handbook: https://grainger.illinois.edu/academics/graduate/handbook

Information listed in this catalog is current as of 06/2020

Departments:
- Aerospace Engineering (https://aerospace.illinois.edu)
- Agricultural & Biological Engineering (https://abe.illinois.edu)
- Bioengineering (https://bioengineering.illinois.edu)
- Chemical & Biomolecular Engineering (https://chbe.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 & Biological 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/mechanical-engineering-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)
- Nuclear, Plasma, & Radiological Engineering, BS (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs)
- Physics (Engineering), 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 (Engineering) Minor (http://catalog.illinois.edu/undergraduate/engineering/minors/physics)

Grainger College of Engineering
## Graduate Majors and Concentrations

- A
  - Aerospace Engineering, MS
  - Aerospace Engineering, PhD
  - Aircraft Systems Engineering, MENG
  - Agricultural & Biological Engineering, MS
  - Agricultural & Biological Engineering, PhD
  - Bioengineering, MENG
  - Bioengineering, MS
  - Bioengineering, PhD
  - Bioinformatics, MS
- B
  - Biochemistry
  - Biotechnology
- C
  - Chemical Engineering
  - Computational Science & Engineering
- D
  - Civil Engineering
  - Construction Engineering
- E
  - Electrical Engineering
  - Environmental Engineering
- F
  - Electronic Engineering
  - Fluid Dynamics
- G
  - Geotechnical Engineering
  - Geoscience
- H
  - Hydrology
  - Hydraulic Engineering
- I
  - Industrial Engineering
  - Infrastructure Engineering
- J
  - Lighting Engineering
  - Lighting Engineering
- K
  - Kinematics
  - Kinesiology
- L
  - Laser Engineering
  - Laser Engineering
- M
  - Materials Engineering
  - Mechanical Engineering
- N
  - Nuclear Engineering
  - Nanotechnology
- O
  - Ocean Engineering
  - Ocean Engineering
- P
  - Political Science
  - Physics
- Q
  - Quality Assurance
  - Quality Assurance
- R
  - Robotics
  - Robotics
- S
  - Safety Engineering
  - Safety Engineering
- T
  - Textile Engineering
  - Textile Engineering
- U
  - Urban Engineering
  - Urban Engineering
- V
  - Industrial Engineering
  - Industrial Engineering
- W
  - Water Resources Engineering
  - Water Resources Engineering
- X
  - X-ray Engineering
  - X-ray Engineering
- Y
  - Yacht Engineering
  - Yacht Engineering
- Z

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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)

Electrical & Computer Engineering, MEng (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-meng)
Electrical & Computer Engineering, MS (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-ms)
  Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics)
  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)
  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/meng/aerospace-systems)
  Energy Systems (http://catalog.illinois.edu/graduate/engineering/meng/energy-systems)
  Plasma Engineering (http://catalog.illinois.edu/graduate/engineering/meng/plasma-engineering)
  Railway Engineering (http://catalog.illinois.edu/graduate/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)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)
T

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)
Aerospace Engineering, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/aerospace-engineering-bs-energy-systems-meng)
Agricultural & Biological Engineering, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs-energy-systems-meng)
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)
Industrial Engineering, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/industrial-engineering-bs-energy-systems-meng)
Materials Science & Engineering, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs-energy-systems-meng)
Materials Science & Engineering, BS-MS (http://catalog.illinois.edu/undergraduate/engineering/materials-engineering-bs-ms)
Nuclear, Plasma & Radiological Engineering, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs-energy-systems-meng)
Physics, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/physics-bs-energy-systems-meng)
Systems Engineering & Design, BS and Energy Systems, MEng (http://catalog.illinois.edu/undergraduate/engineering/systems-engineering-design-bs-energy-systems-meng)

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