GRAINGER COLLEGE OF ENGINEERING

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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 03/2020

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 (https://catalog.illinois.edu/undergraduate/engineering/aerospace-engineering-bs)
Agricultural & Biological Engineering, BS (https://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs)

Agricultural Engineering Concentration (https://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs-agricultural-engineering)
Biological Engineering Concentration (https://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs-biological-engineering)
Agricultural & Biological Engineering, BS and Agricultural & Biological Engineering, BSAG (https://catalog.illinois.edu/undergraduate/eng_aces/agricultural-biological-engineering-bs-agricultural-science-bsag) (Dual Degree Program)

Bioengineering, BS (https://catalog.illinois.edu/undergraduate/engineering/bioengineering-bs)
Civil Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/civil-engineering-bs)
Computer Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/computer-engineering-bs)
Computer Science, BS (https://catalog.illinois.edu/undergraduate/engineering/computer-science-bs)
Electrical Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/electrical-engineering-bs)
Engineering Mechanics, BS (https://catalog.illinois.edu/undergraduate/engineering/engineering-mechanics-bs)
Industrial Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/industrial-engineering-bs)

Innovation, Leadership & Engineering Entrepreneurship, BS (https://catalog.illinois.edu/undergraduate/engineering/innovation-leadership-engineering-entrepreneurship-bs) (ILEE)

Materials Science Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/materials-science-engineering-bs)

Mechanical Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/mechanical-engineering-bs)
Nuclear, Plasma, & Radiological Engineering, BS (https://catalog.illinois.edu/undergraduate/engineering/nuclear-plasma-radiological-engineering-bs)

Physics (Engineering), BS (https://catalog.illinois.edu/undergraduate/engineering/physics-bs)

Systems Engineering & Design, BS (https://catalog.illinois.edu/undergraduate/engineering/systems-engineering-design-bs)

Minors
Bioengineering Minor (https://catalog.illinois.edu/undergraduate/engineering/minors/bioengineering)
Computational Science & Engineering Minor (https://catalog.illinois.edu/undergraduate/engineering/minors/computational-science-engineering)
Computer Science Minor (https://catalog.illinois.edu/undergraduate/minors/cs)
Electrical & Computer Engineering Minor (https://catalog.illinois.edu/undergraduate/engineering/minors/electrical-computer-engineering)
International Minor in Engineering (https://catalog.illinois.edu/undergraduate/engineering/minors/international-engineering)


Physic (Engineering) Minor (https://catalog.illinois.edu/undergraduate/engineering/minors/physics-engineering-bs)
Graduate Majors and Concentrations

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)

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)
  General Bioengineering (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/general-bioengineering)
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)
  Computer Science (http://catalog.illinois.edu/graduate/engineering/concentration/computer-science/bioinformatics)
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/concentration/aerospace-systems)
  Energy Systems (http://catalog.illinois.edu/graduate/engineering/concentration/energy-systems)
  Plasma Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/plasma-engineering)
  Railway Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/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/business-engineering/financial-engineering-ms)
  Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)
I

Industrial Engineering, MS ([link](http://catalog.illinois.edu/graduate/engineering/industrial-engineering-ms))

Advanced Analytics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/advanced-analytics-industrial-enterprise-systems-engineering))

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

Industrial Engineering, PhD ([link](http://catalog.illinois.edu/graduate/engineering/industrial-engineering-phd))

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M

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

Biomechanics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics))

Cancer Nanotechnology ([link](http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology))

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

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

Biomechanics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics))

Cancer Nanotechnology ([link](http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology))

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

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

Biomechanics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics))

Cancer Nanotechnology ([link](http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology))

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

Biomechanics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics))

Cancer Nanotechnology ([link](http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology))

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

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

Biomechanics ([link](http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics))

Cancer Nanotechnology ([link](http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology))

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

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

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

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

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

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P

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

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

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

Plasma Engineering, MENG, see Engineering, MENG

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Railway Engineering, MENG, see Engineering, MENG

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

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

Systems & Entrepreneurial Engineering, PhD ([link](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)
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/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)