As a high school or transfer student talented in physics and mathematics, you have many options to consider. Is NPRE your fit?

NPRE is for students who:
• are passionate about impacting climate change and exploring renewable energy sources
• want to innovate the plasma technologies of the future
• want to apply radiological science to advancing medicine and human health
• would benefit from a flexible degree program
• plan to hit the ground running and get involved in research right away
• prefer the friendliness of a small department with access to a large research university’s world-class professors and facilities

Why choose NPRE?
Because great opportunities await you!
Our students study the development and use of nuclear reactions, radiation sources and fusion for energy production, plasma-material interactions for industrial processing and manufacturing, and radiological sciences for security applications and biomedical needs.

The major leads to excellent career choices for highly proficient math and atomic physics students. Our graduates are passionate about producing sustainable, carbon-free, clean, nuclear energy; advancing plasma processing for electronic and manufacturing technologies; and innovating the use of radiation for human healthcare and homeland security.

Why NPRE?

NPRE, By the Numbers
• Average BS degree scholarship amounts to qualified students from NPRE Department: $3,000–$5,000 annually
• Faculty to student ratio: 1:9 (2018-19)
• Average annual salary after graduation: $61,750
• 93% secured first destination after graduation
• 56% joined the workforce
• 37% entered graduate school

Come visit us!
Nuclear, Plasma, and Radiological Engineering is a top-rated program in one of the world’s elite universities for engineering disciplines! We welcome you to visit us and see for yourself!

For more details or to plan a visit, please contact:
BECKY MELINE
Coordinator of Academic Programs
bmeline@illinois.edu
217-333-3598

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ILLINOIS
Nuclear, Plasma & Radiological Engineering
COLLEGE OF ENGINEERING

npre.illinois.edu
Careers
Our students find their careers in major utilities, startup nuclear companies, consulting firms, national laboratories, government agencies, the US Nuclear Navy, semiconductor processing companies, and developers of healthcare instrumentation. Our radiological track is also of interest to students applying to medical school. NPRE’s SPEED Interchange career fairs and information on internships and workshops will help you make the connections you need to start an exciting, fulfilling career!

NUCLEAR POWER
Nuclear engineers work to solve the world’s energy problems through the efficient, reliable and safe production of nuclear power.

PLASMA/FUSION
Engineers use plasma processing in semiconductor production and in cutting-edge manufacturing technologies. These engineers also explore nuclear fusion, the power of the sun, as the next step in energy production.

RADIOLOGICAL SCIENCES
The intersection of radiation technologies and medicine, security and other basic science areas (biology, chemistry, materials science, physics, and computer science) is home for these engineers. Some turn to medical professions; others focus on developing radiation instrumentation or homeland security technology.

Get involved!
NPRE fosters a sense of community through support of our student organizations, the American Nuclear Society Illinois student chapter, and Women in Nuclear. The College of Engineering and the university offer many other organizations and activities to help students find a home at Illinois.

Hands-on research
Most of NPRE’s faculty members involve undergraduates in their research groups, and other research opportunities exist throughout the College of Engineering.

Study abroad
You also can expand your educational experience through study abroad opportunities such as NPRE’s exchange program with the University of Pisa in Italy, or through summer courses in Sweden to learn about that country’s storage solutions for spent nuclear fuel.

Making college affordable
Scholarships and financial aid are available to incoming students to greatly reduce the costs of higher education. Numerous resources exist through the NPRE Department, the College of Engineering and the University of Illinois at Urbana-Champaign. Through the Illinois Commitment program (https://admissions.illinois.edu/commitment), qualified students can gain up to four years of free tuition! Many scholarships also can be sought from external sources, particularly from organizations such as the American Nuclear Society and U.S. Department of Energy.

Why NPRE?
For more information on all of these topics, visit the Why NPRE? tab of our website, npre.illinois.edu.

Flexibility in 3 concentrations!

What alumni are saying...
“Over the years in school, the most experience I got was being involved in research. This allowed me to develop skills like making a program to process signals from a medical imaging device and produce images. Additionally, I was able to get better at public speaking skills when presenting that material in a poster.”

What alumni are saying...
“One of the things I was able to do as a student was work for different power plants. I was able to see a variety and compare how each plant works. Illinois opens doors for this type of experience. I want you to know that there are a lot of options that make Nuclear, Plasma, and Radiological Engineering very exciting.”

What alumni are saying...
“One of the great things about the NPRE Department at Illinois is that it’s a very tight-knit department within the College of Engineering. The size enables you to know your peers and professors on a more personal level.”

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