Visiting Research Engineer or Visiting Senior Research Engineer
Nuclear, Plasma, and Radiological Engineering
The Grainger College of Engineering
University of Illinois Urbana-Champaign

The Department of **Nuclear, Plasma, and Radiological Engineering** in The Grainger College of Engineering has two position openings for a Visiting Research Engineer or Visiting Senior Research Engineer.

Visiting Research Engineer – The position will support ongoing and active research and development in the NPRE department within the area of nuclear microreactors.

Research Collaboration

- Assist in the analysis and design of reactor systems to enhance safety and operational efficiency.
- Conduct research on critical aspects of microreactor technology development, contributing to advancements in the field.
- Perform modeling and simulation of nuclear reactor systems to support research and development initiatives.
- Communicate scientific advancements and licensing updates to stakeholders through various channels, including webinars, presentations, and scientific publications.

Administrative and Analytical Support

- Assist faculty, staff, and students with required licensing activities related to the U.S. Nuclear Regulatory Commission (NRC). Support ongoing efforts for the University's microreactor construction permit and operating license.
- Work alongside faculty on funded research projects, providing technical and analytical support.
- Work together to prepare and submit research grant proposals in collaboration with Nuclear, Plasma, and Radiological Engineering (NPRE) faculty.
- Additional duties as assigned to assist in the efforts of the ongoing mission of the department

Minimum Qualifications:

- Master's degree in Nuclear or Mechanical Engineering (or other relevant engineering discipline)
- At least two years of work experience in the advanced reactor industry (or equivalent industry)
- Experience in modeling and simulation nuclear reactors (or similar thermal systems)
- Experience in presenting technical work
- Experience with nuclear quality assurance requirements
- U.S. citizen, Permanent Resident, a national from one of the countries listed in the 10 CFR 810 appendix, or the ability to meet Department of Energy Regulations 10 CFR 810 authorized holders

Preferred Qualifications:

- Worked under a nuclear quality assurance program.
- PhD degree in Nuclear or Mechanical Engineering (or other relevant engineering discipline)

Knowledge, Skills and Abilities:

- Maintain a high level of professionalism and confidentiality when working with classified, export-controlled, or otherwise sensitive technical information.

Visiting Senior Research Engineer – The position will coordinate ongoing and active research and development in the NPRE department within the area of nuclear microreactors.

Research Collaboration

- Coordinate the analysis and design of reactor systems to enhance safety and operational efficiency.
- Conduct independent research on critical aspects of microreactor technology development, contributing to advancements in the field. Review and incorporate advancements into ongoing research activities.
- Independently perform modeling and simulation of nuclear reactor systems to support research and development initiatives.
- Conduct data analysis to further the research objectives.
- Communicate scientific advancements and licensing updates to stakeholders through various channels, including webinars, presentations, and scientific publications.

Administrative and Analytical Support

- Collaborate with faculty, staff, and students with required licensing activities related to the U.S. Nuclear Regulatory Commission (NRC). Support ongoing efforts for the University's microreactor construction permit and operating license.
- Work alongside faculty on funded research projects, providing technical and analytical support.
- Independently prepare and submit research grant proposals in collaboration with Nuclear, Plasma, and Radiological Engineering (NPRE) faculty. This includes technical data review and independent judgment for inclusion into the grant proposals.
- Additional duties as assigned to assist in the efforts of the ongoing mission of the department

Minimum Qualifications:

- Master's degree in Nuclear or Mechanical Engineering (or other relevant engineering discipline) with 6 years of work experience in the advanced reactor industry (or equivalent industry) **or** PhD degree in Nuclear or Mechanical Engineering (or another relevant engineering discipline) with at least three years of work experience in the advanced reactor industry (or equivalent industry)
- Experience in modeling and simulation nuclear reactors (or similar thermal systems)
- Experience in presenting technical work
- Experience with nuclear quality assurance requirements
- U.S. citizen, Permanent Resident, a national from one of the countries listed in the *10 CFR 810 appendix*, or the ability to meet Department of Energy Regulations 10 CFR 810 authorized holders

Preferred Qualifications:

- Worked under a nuclear quality assurance program.

Knowledge, Skills and Abilities:

- Maintain a high level of professionalism and confidentiality when working with classified, export-controlled, or otherwise sensitive technical information.

Candidates must meet the eligibility requirements of the Department of Energy Regulations *10 CFR 810*. Compliance with these requirements is necessary due to the Department of Energy regulations governing access to nuclear, plasma, and radiological technology and information. Requesting specific DOE authorization may be part of the hiring process. All authorizations must be in place by the proposed position start date of December 1, 2025.

APPOINTMENT INFORMATION

These positions are full-time academic professional positions appointed on a 12-month service basis. These positions may become permanent at a later date. The expected start date is as soon as possible after the closing date. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. The budgeted salary range is $80,000-100,000 for the Visiting Research Engineer and $100,000 -$120,000 for the Visiting Senior Research Engineer. Salary is competitive and commensurate with qualifications and experience, while also considering internal equity. Hybrid work options may be available for the positions, with the ability to be on-site at the University of Illinois Urbana-Champaign campus as needed per the University's Workplace Flexibility policy. Sponsorship for work authorization is available for the positions.

APPLICATION PROCEDURES AND DEADLINE INFORMATION

Applications must be received by 6:00 pm (CST) on **October 31, 2025**. Apply for these positions using the Apply Now button at the top or bottom of this posting. Please upload your cover letter, resume, and names/contact information for three references. Applications not submitted through https://jobs.illinois.edu will not be considered. For further information about these specific positions, please contact **Allie Langley at ardonne2@illinois.edu.** For questions regarding the application process, please contact 217-333-2137.

The University of Illinois offers a very competitive benefits portfolio, depending on the position. Click for a complete list of Employee Benefits.

The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.

The University of Illinois System is an equal opportunity employer, including but not limited to disability and/or veteran status, and complies with all applicable state and federal employment mandates. Please visit Required Employment Notices and Posters to view our non-discrimination statement and find additional information about required background checks, sexual harassment/misconduct disclosures, and employment eligibility review through E-Verify.

Applicants with disabilities are encouraged to apply and may request a reasonable accommodation under the Americans with Disabilities Act (2008) to complete the application and/or interview process. Accommodations may also be requested on the basis of pregnancy, childbirth, and related conditions, or religion. Requests may be submitted through the reasonable accommodations portal, or by contacting the Accessibility & Accommodations Division of the Office for Access and Equity at 217-333-0885, or by emailing accessibility@illinois.edu.