We are seeking a postdoctoral research associate who will work on a NEUP funded project related to light water nuclear reactor sustainability. The ideal candidate will bring superior experimental capability related the operation of recirculating loop autoclaves and stress corrosion cracking of Fe- and Ni-based alloys. It is expected the PDRA will be a nuclear engineer with a strong experimental background, but candidates in related fields will be considered. The University of Illinois at Urbana-Champaign is home to the Frederick Seitz Materials Research Laboratory (https://mrl.illinois.edu/) that houses several advanced microanalytical analysis instruments including a FEI Helios 600i Dual Beam SEM/FIB and a FEI Themis Z Advanced Probe Aberration Corrected Analytical TEM/STEM. In addition, a new CAMECA LEAP 5000XS atom probe tomography instrument is scheduled for commissioning in 2019.

The ideal candidate will possess the following required skills and qualifications:

- Doctoral degree in nuclear engineering or a related field.
- Strong experimental background working with recirculating loop autoclaves.
- Knowledge of corrosion degradation processes in metals and alloys.
- Knowledge of stress corrosion cracking phenomenon operating in Fe- and Ni-based alloys.
- Knowledge of radiation damage processes operating in metal alloys.
- Experience with microanalytical analysis techniques.

The Postdoctoral Research Associate is a full-time, benefits-eligible position appointed on a 12-month service basis. The initial appointment is for one year with the possibility of extension based on performance and funding. The anticipated start date is January 1, 2019. The closing date to apply for this position is October 1, 2018, although applications received after this date may be considered. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. Salary is commensurate with experience and qualifications.

To apply for this position, please submit a cover letter, curriculum vitae, and contact information for three professional references by October 1, 2018 to Prof. Brent J. Heuser at bheuser@illinois.edu. Full consideration will be given to complete applications received by the closing date of October 1, 2018.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. For more information, visit http://go.illinois.edu/EEO. To learn more about the University’s commitment to diversity, please visit http://www.inclusiveillinois.illinois.edu