



RUSSELL L. HEATH

Distinguished Postdoctoral Associate

For more than six decades, Idaho National Laboratory scientists and engineers have helped solve some of the nation's most pressing energy, environment and national security challenges. In order to continue attracting emerging researchers with backgrounds supporting our missions of advancing nuclear energy, protecting critical infrastructure and deploying clean energy, INL offers a competitively awarded distinguished postdoctoral research associate appointment that is available for top Ph.D. researchers.

INL's Russell L. Heath Distinguished Postdoctoral associate program is designed to attract, recruit, develop and inspire early career researchers who have the potential to develop into INL's future scientific and technical leaders. This highly competitive appointment is intended to recognize and provide distinguished postdoctoral associates with experience, mentoring and training to further their capabilities. The engagement of

early career research talent is critical to the success of INL's mission areas.

Ideal candidates have exceptional talent, scientific track records and potential for significant achievements.

Russell L. Heath Distinguished Postdoctoral appointments are awarded to outstanding early career scientists and engineers with interest in advancing the fields of nuclear energy, critical infrastructure protection, and clean energy deployment.

Russell L. Heath Distinguished Postdoctoral appointment candidates are broadly represented in the fields of nuclear engineering, materials science, computational science, separations science, power engineering, wireless technology or systems analysis.

The Russell L. Heath Distinguished Postdoctoral appointment award provides up to two years support to the selected candidate with a possible one-year extension, for a total of up to three years.

Russell L. Heath

Russ Heath spent most of his career at INL (34 years) conducting nuclear research. Of his many contributions, Heath is world renowned for the publication of the extensive series of NaI(Tl) and Ge Gamma-ray Spectrum Catalogues, which have been used extensively by science researchers in government labs, academia and industry. Heath's gamma-ray spectrometry catalogue contributed to the nuclear community's understanding of radioactive materials and is still used extensively nearly six decades after it was first published. Heath was a member of the board of editors for the prestigious journal Nuclear Instruments and Methods in Physics Research, contributing editor for the Handbook of Chemistry and Physics, reviewer for the journals Physical Review, Analytical Chemistry, Nuclear Technology, Nuclear Science and Engineering, and chairman of the Nuclear Detector Subcommittee of the National Academy of Sciences.

Distinguished Postdoctoral Program Provisions:

- Opportunity to develop and build independent research while helping advance INL, Department of Energy and national agendas for energy and security.
- Access to lab leadership and career enhancing opportunities.
- Mentors include top INL researchers and leaders.
- A prestigious and competitively compensated position.

Candidate Requirements

- Attained a Ph.D. degree in a science or engineering discipline that is closely related to INL's mission
- Completed Ph.D. prior to distinguished postdoctoral appointment and within the previous five years
- Demonstrated leadership and potential for independent research

Preferred Candidates

- Possess a Ph.D. degree from a prestigious university.
- Graduate of a prestigious program in their field.
- Completed a research experience or Postdoc appointment at a premier institution.

Application Deadline

The application is typically open from October through March with selections announced in May.

Application Process

Please submit the following materials:

1. Letter of interest that details long-term professional goals, dates of availability and development goals that include descriptions of strengths and disciplinary areas for research. Two pages maximum (U.S. 8.5" x 11", single sided).
2. Current Curriculum Vitae
3. Unofficial transcripts
4. Bibliography of publications, preprints and significant presentations
5. One peer-reviewed publication preprint or reprint of your choice
6. Abstract of doctoral dissertation
7. Proposed research plan that includes:
 - Research to be addressed
 - Conjectures or hypotheses to be tested
 - Proposed methods of investigation
 - Guiding relevant theoretical frameworks
 - Research schedule
 - Anticipated work hours
 - Unburdened budget, not to exceed \$200,000 over two years
 - Major equipment needs and other necessary resources [The plan is limited to a maximum of two pages (U.S. 8.5" x 11", single sided)].
8. Three letters of recommendation. One must be from your Ph.D. advisor.

Applicants must submit all required materials through www.inl.gov/careers

Applications that do not follow all submission instructions may be ineligible.

Additional information may be requested from finalists.

Contact Information:

Postdoctoral Specialist
Idaho National Laboratory
2525 N. Fremont Avenue
Idaho Falls, ID 83415-3790
postdocoffice@inl.gov