DESLONDE de BOISBLANC
Distinguished Postdoctoral Appointment

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. We welcome fresh ideas and new perspectives from promising researchers with backgrounds that support our key mission areas.

INL's Deslonde de Boisblanc Distinguished Postdoctoral Associate Appointment is competitively awarded to early career researchers who embody the spirit of ingenuity of de Boisblanc and who have leadership potential. This highly competitive appointment is intended to recognize distinguished postdoctoral associates and to provide them with experience, mentoring and training to further develop their capabilities.

This appointment is awarded to early career nuclear scientists and engineers to perform leading-edge research and development for advanced power reactor design and development as well as to support operations, safety, fuel management, experiment management and other pertinent activities associated with INL research reactor facilities. The position requires in-depth knowledge of computational and experimental reactor physics, core design optimization, nuclear instrumentation, and thermal-fluids science, as well as experience with established and well-validated reactor analysis tools such as, but not limited to, RELAP, MCNP5, HELIOS, SCALE and Serpent.

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

Deslonde de Boisblanc

In 1949, the U.S. Atomic Energy Commission established the National Reactor Testing Station, which is now known as Idaho National Laboratory. Deslonde R.H. de Boisblanc was an important scientist in those early days of the

laboratory. He spent 25 years in Idaho Falls, first as the managing director of the National Reactor Testing Station and later at the Atomic Energy Commission.

He is most well-known for designing the familiar serpentine core of the Advanced Test Reactor. In 1959, de Boisblanc came up with an idea to arrange the core into multiple regions with different flux traps, which could operate at different power levels simultaneously. Because of its high-neutron flux and large volume of irradiation space, the ATR lends itself to isotope production as well.

De Boisblanc was a founding fellow of the American Nuclear Society, was listed in "Who's Who of American Scientists," and served as an American representative to the Geneva Conventions on the Peaceful Uses of Atomic Energy.

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

Minimum requirements:

- Attained a doctorate degree in nuclear or mechanical engineering, physics or comparable discipline.
- Completed Ph.D. prior to distinguished postdoctoral appointment and within the previous three years.
- Demonstrated leadership and potential for independent research.
- Demonstrated oral and written scientific communication skills in English.

Preferred candidates:

- Possess a doctorate degree from a prestigious university.
- Graduate of a prestigious program.
- Completed research or postdoctoral appointment at a premier institution.

Application Deadline

Submit all materials by midnight (MST) March 19, 2017.
View instructions on Posting 11011 at www.inl.gov/careers.

Application Process

Please submit the following materials via Posting 11011:

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 (8.5 by 11 inches, 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
   - Major equipment needs and other necessary resources {The plan is limited to a maximum of two pages (8.5 by 11 inches, single-sided)}.
8. Three letters of recommendation. One must be from your Ph.D. advisor.

Applications that do not all follow submission instructions per Posting 11011 may be ineligible.

Additional information may be requested from finalists.

Contact Information:

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