

Postdoctoral Research Associate Position in Applied  
Nuclear Physics and Radiation Detection  
University of Michigan

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Posted Oct. 8, 2024, set to expire Feb. 7, 2025

<b>Job Title</b>	Postdoctoral Research Associate Position in Applied Nuclear Physics and Radiation Detection
<b>Department</b>	Nuclear Engineering and Radiological Sciences <a href="http://ners.engin.umich.edu">http://ners.engin.umich.edu</a>
<b>Institution</b>	University of Michigan Ann Arbor, Michigan
<b>Date Posted</b>	Oct. 8, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Physics - Elementary Particles/Nuclear
<b>Job Website</b>	<a href="http://ansg.engin.umich.edu">http://ansg.engin.umich.edu</a>
<b>Apply By Email</b>	<a href="mailto:ijov@umich.edu">ijov@umich.edu</a>

**Job Description**

One postdoctoral research position is open immediately to conduct research on neutron, gamma, and antineutrino detection for nuclear science, nuclear energy, and nuclear security applications. The group is a member of several major collaborative research frameworks including the Consortium for Nuclear Forensics (CNF), Monitoring, Technology and Verification Consortium (MTV), the Interaction of Ionizing Radiation with Matter University Research Alliance (IIRM-URA), the Zettawatt-Equivalent Ultrashort pulse laser System (ZEUS), and the LiquidO Collaboration. The group is widely supported by multiple agencies National Science Foundation, Department of Energy, Department of Defense, and Department of Homeland Security.

The candidate should hold (or soon to receive) a Ph.D. degree in experimental nuclear or particle physics, nuclear engineering, or a closely related field. The candidate must have a strong experimental

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background, including experience in radiation detection and digital nuclear instrumentation. Monte Carlo modeling experience is desirable, especially with Geant4 and ROOT.

The postdoctoral research associate will work in a dynamic, highly interdisciplinary team at the University of Michigan, Department of Nuclear Engineering and Radiological Sciences led by Prof. Igor Jovanovic (<http://ansg.engin.umich.edu>), in collaboration with other universities and national laboratories. Exceptional research facilities are available and will be used, including accelerator-based and laser-based radiation sources and state-of-the-art detectors. Funds are available to present research results at major conferences.

The position does not require U.S. citizenship or permanent residence. Based on performance and availability of funding, the successful candidate may advance to a research faculty position at the University of Michigan. The review will begin immediately and continue till the position is filled.

**Interested candidates should send a CV (including a description of research experiences and related skills), a publication list, and the names of 3 references to Prof. Igor Jovanovic ([ijov@umich.edu](mailto:ijov@umich.edu)).**

### EEO/AA Policy

<https://spg.umich.edu/sites/default/files/201X82.PDF>

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Igor Jovanovic  
Nuclear Engineering and Radiological Sciences  
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Ann Arbor, MI 48109

**Phone Number** 734-647-4989



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