

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

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

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).

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
University of Michigan
Ann Arbor, MI 48109

Phone Number 734-647-4989



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