

## Experimental Nuclear Science Post-Doc University of Kentucky

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Posted Feb. 26, 2024, set to expire May 14, 2024

<b>Job Title</b>	Experimental Nuclear Science Post-Doc
<b>Department</b>	8E030:Chemistry
<b>Institution</b>	University of Kentucky Lexington, Kentucky

<b>Date Posted</b>	Feb. 26, 2024
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<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately

<b>Job Categories</b>	Post-Doc
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<b>Academic Field(s)</b>	Physics - Elementary Particles/Nuclear Chemistry - General
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<b>Job Website</b>	<a href="https://ukjobs.uky.edu/postings/514403">https://ukjobs.uky.edu/postings/514403</a>
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### Apply By Email

### Job Description

The Chemistry Department in the College of Arts & Sciences at the University of Kentucky in Lexington, KY is seeking a postdoctoral scholar to work with the low-energy nuclear structure group at the UK Accelerator Laboratory (UKAL). Most of the research will be performed at the university's 7 MV Van de Graaff accelerator facility, however, project travel to larger facilities such as TRIUMF and HlYS to perform complementary experiments is also anticipated.

Related topics in nuclear spectroscopy, neutron-induced reactions, and neutron scattering are the focus of the research program. This includes selected studies in forefront areas such as: nuclear structure relevant to double-beta decay, shape transition of nuclei, collective excitations and shape coexistence, as well as precise & accurate neutron scattering cross sections for the development of advanced nuclear reactors, homeland security, and other applications.

The measurement of lifetimes in the femtosecond regime with the Doppler-shift attenuation method

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(DSAM) following inelastic neutron scattering is crucial in many of these studies. The research group frequently works in collaboration with theorists and data evaluators. Additional information about the lab can be found at [www.pa.uky.edu/accelerator](http://www.pa.uky.edu/accelerator).

Candidates must possess a recent Ph.D. in nuclear science (chemistry or physics). The successful candidate is expected to contribute to all activities of the laboratory and should have demonstrated expertise in nuclear spectroscopy or cross-section measurements. Preference will be given to candidates with experience at small accelerator laboratories and/or with digital electronics, and who can begin working by June 2024.

This appointment is for one year with the potential to renew for a second year, contingent on availability of funding.

Please provide your CV, a Cover Letter, and 2 Letters of Recommendation when applying for this position.

Questions about the position should be directed to Dr. Erin E. Peters, Interim Director of UKAL, [fe.peters@uky.edu](mailto:fe.peters@uky.edu).

### Contact Information

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

### Contact

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