Faculty in Applications of Physics, Data Science and/or Engineering to Particle Accelerators (Tenured, F1117A
Old Dominion University

Job Title	Faculty in Applications of Physics, Data Science and/or Engineering to Particle Accelerators (Tenured, F1117A
Department	AI CLUSTER HIRE INITIATIVE
Institution	Old Dominion University Norfolk, Virginia
Date Posted	Aug. 22, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Core Faculty
Academic Field(s)	Physics - General
Job Website	https://jobs.odu.edu/postings/23963
Apply By Email	

Job Description

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The Department of Physics and the Center for Accelerator Science at Old Dominion University invite applicants for a tenured Associate or Full Professor position (depending on experience) in Accelerator Science to begin in Fall 2026 as part of a multi-position hiring initiative for ***Applications of Physics , Data Science, and/or Engineering to Particle Accelerators.***

The appointee will maintain a vibrant, externally funded interdisciplinary research program in accelerator science using artificial intelligence (AI)/machine learning (ML), engineering, physics and/or related scientific approaches to study topics such as accelerator design and development, advanced performance optimization and analysis of accelerators, large-scale simulations of accelerator

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performance, and control optimization of accelerators using advanced AI/ML techniques. Collaboration with other faculty in Physics, Engineering, and the School of Data Science at ODU as well as accelerator scientists at the nearby Thomas Jefferson National Accelerator Facility (Jefferson Lab) will be encouraged.

Other Responsibilities:

- Teach undergraduate and graduate courses, including for the Virginia Innovative Traineeship in Accelerators (VITA) program and the US Particle Accelerator School (USPAS).
- Advise graduate students.
- Provide service to their department and the University.

Position Type

FullTime

Type of Recruitment

General Public

Minimum required education and/or special licenses, registrations, trainings, or certifications

A Ph.D. or equivalent in Physics, Computer Science, Mathematics, Engineering, or a closely related field is required.

Minimum required level and type of experience, knowledge, skills, and abilities

Candidates must have expertise in the field of accelerator science, broadly defined, and experience indicative of the ability or interest to teach and/or mentor at the undergraduate and graduate levels.

Candidates must also have the following:

1. Academic records that merit a tenured appointment in the Department of Physics or El at ODU.
2. A successful record in research and externally funded grants.
3. Demonstrated ability to interact and communicate clearly with internal and external constituencies.

Preferred Qualifications

- Postdoctoral experience in Accelerator Science or a related field

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- A strong publication record and/or experience with grant-funded research.
- Research relating to understanding and improving the CEBAF accelerator at Jefferson Lab, designing and building the Electron-Ion Collider (EIC), exploring future nuclear physics accelerators, improving the performance of light sources, developing new concepts for accelerators for nuclear and high-energy physics, nuclear medicine and other applications, or visualization and control of accelerators.

Contact Information

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

Contact

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