

Assistant Professor
North Carolina State University

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Posted Jun. 10, 2025, set to expire Oct. 12, 2025

Job Title	Assistant Professor
Department	Department of Physics https://physics.sciences.ncsu.edu/
Institution	North Carolina State University Raleigh, North Carolina
Date Posted	Jun. 10, 2025
Application Deadline	Applications being reviewed starting September 1, 2025
Position Start Date	Aug. 16, 2026
Job Categories	Assistant Professor
Academic Field(s)	Physics - Elementary Particles/Nuclear
Job Website	https://jobs.ncsu.edu/postings/218780
Apply Online Here	https://jobs.ncsu.edu/postings/218780
Apply By Email	
Job Description	

Position Overview:

North Carolina State University (NCSU) is seeking a highly motivated and innovative individual for a tenure-track position at the level of Assistant Professor as part of the FRIB Experimental Bridge program. This unique position provides an exceptional opportunity for a dynamic researcher to thrive in a collaborative environment at the forefront of nuclear science.

The successful candidate will split their professional efforts between the Facility for Rare Isotope

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Beams (FRIB), located at Michigan State University (MSU), and the local facilities at NCSU and the Triangle Universities Nuclear Laboratory (TUNL), located in Durham, North Carolina. This dual appointment offers a distinctive platform for cutting-edge research, leveraging the capabilities and resources of both renowned institutions.

Key Responsibilities:

- Conduct cutting-edge research at FRIB, using its state-of-the-art facilities to advance the frontiers of rare isotope science.
- Lead an independent research program and engage in collaborative research at TUNL, where unique capabilities such as high-intensity particle beams, polarized photon beams, neutron beams, and advanced detection systems support a broad range of nuclear physics investigations.
- Develop a robust, externally funded research program that integrates work at both FRIB and NCSU/TUNL.
- Teach undergraduate and graduate courses at NCSU, demonstrating a commitment to excellence in education and mentorship.

Qualifications:

- A Ph.D. in Nuclear Physics or a closely related field.
- Postdoctoral experience is highly desirable.
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A strong track record of research accomplishments in nuclear physics, evidenced by publications and presentations at conferences and/or workshops .

- Experience and expertise in experimental nuclear physics, with an emphasis on rare-isotope physics or related areas.

About Physics at NCSU:

The NCSU Physics department has approximately 60 faculty members committed to research excellence in a diverse spectrum of disciplines. These include experimental and theoretical nuclear physics, astrophysics, general relativity, condensed matter theory and experiment, computational physics, biophysics, nanoscale science, physics education, particle physics theory, experimental optics, and experimental atomic and molecular physics. The experimental nuclear physics group has long been established as a leader in the field through pioneering work on precision nuclear structure studies, nuclear astrophysics, and fundamental symmetries. Academically, the Physics Department provides: (1) high-quality physics instruction to the University community through courses in introductory physics; (2) educational opportunities for undergraduate and graduate students in physics through high-quality curricula, faculty, and research facilities; (3) outreach programs that advance scientific knowledge. The department enrolls approximately 120 graduate students and 140 undergraduate physics majors. While working in this department, you will be expected to foster a supportive and welcoming environment.

NC State promotes an integrated approach to problem solving that transforms lives and provides leadership for social, economic, and technological development across North Carolina and around the world. NC State's land-grant mission of teaching, research and service is dedicated to the service of North Carolina and its people. Applicants are encouraged to review the institution's mission, vision and strategic plan, and to consider how their background, interest and experience would enable them to support the university.

About TUNL:

The Triangle Universities Nuclear Laboratory (TUNL), one of the U.S. Department of Energies three

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"Centers of Excellence," is affiliated with several local universities, and is a member of the Association for Research at University Nuclear Accelerators (ARUNA). TUNL offers a unique collaborative research environment, providing access to high-intensity, high-stability accelerators, neutron beams, gamma-ray beams, and advanced particle and gamma-ray detectors. These facilities enable pioneering research in a variety of fields, including nuclear structure, nuclear astrophysics, fundamental symmetries, and applications to societal needs.

About FRIB:

The Facility for Rare Isotope Beams (FRIB) at Michigan State University is a national user facility supporting cutting-edge research and innovation by providing state-of-the-art infrastructure for the production and study of rare isotopes. The facility's capabilities enable exploration of the fundamental properties of atomic nuclei, advance our understanding of nuclear processes in the universe, and drive applications in medicine, security, and energy. FRIB fosters a collaborative environment that attracts leading nuclear physicists from around the globe, contributing to groundbreaking discoveries and expanding the frontiers of rare isotope science. FRIB plays a pivotal role in nurturing the next generation of nuclear physicists and advancing scientific knowledge..

Application Instructions:

Applicants should submit the following documents as part of their application:

1. Cover letter summarizing research interests and teaching philosophy.
2. Curriculum Vitae, including a list of publications.
3. Research statement outlining past achievements and future plans.
4. Teaching statement highlighting pedagogical approaches, student engagement, and mentoring.
- 5.

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The candidate should also arrange to have three (3) letters of recommendation sent to physicsjobs@ncsu.edu.

Applications must be submitted electronically via the NCSU employment portal at job.ncsu.edu/postings/218780.

Contact Information:

For questions or further information about the position, please contact the Search Committee Chair, Dr. Richard Longland, at rllongla@ncsu.edu.

Join us at NCSU and contribute to an exciting future in nuclear science, benefiting from the collaborative research environment offered by FRIB and TUNL!

EEO/AA Policy

NC State University is an equal opportunity employer. All qualified applicants will receive equal opportunities for employment without regard to age, color, disability, gender identity, genetic information, national origin, race, religion, sex (including pregnancy), sexual orientation, and veteran status. The University encourages all qualified applicants, including protected veterans and individuals with disabilities, to apply. Individuals with disabilities requiring disability-related accommodations in the application and interview process are welcome to contact 919-513-0574 to speak with a representative of the Office of Equal Opportunity.

If you have general questions about the application process, you may contact Human Resources at (919) 515-2135 or workatncstate@ncsu.edu.

Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. Degree(s) must be obtained prior to start date in order to meet qualifications and receive credit.

NC State University participates in E-Verify. Federal law requires all employers to verify the identity

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and employment eligibility of all persons hired to work in the United States.

Contact Information

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

Contact Richard Longland
Department of Physics
North Carolina State University
2401 Katherine Stinson Drive
Campus Box 8202
Raleigh, NC 27695

Contact E-mail rllongla@ncsu.edu