

Open Rank in Quantum Information Science &
Engineering
The University of New Mexico

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Posted Oct. 29, 2024, set to expire Mar. 2, 2025

Job Title Open Rank in Quantum Information Science & Engineering
Department College of Arts & Sciences, or the School of Engineering
<http://unm.edu>
Institution The University of New Mexico
Albuquerque, New Mexico

Date Posted Oct. 29, 2024

Application Deadline Dec. 6, 2024

Position Start Date Fall 2025

Job Categories Assistant Professor
Associate Professor
Professor

Academic Field(s) Computer Science
Computer Engineering
Electrical and/or Electronics

Job Website <https://unm.csod.com/ux/ats/careersite/18/home/requisition/27555?c=unm&sq=open%20rank>

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Job Description

The University of New Mexico (UNM) is seeking to hire exceptional faculty members specializing in quantum materials and systems, broadly defined. These open-rank positions offer an initial appointment based on the candidate's experience and qualifications. The selected individual(s) will join an academic department within either the School of Engineering or the College of Arts and Sciences. Departments of potential affiliation include, but are not limited to, Chemistry and Chemical Biology, Computer Science, Electrical and Computer Engineering, Mathematics, Physics and Astronomy, Mechanical Engineering, and Chemical and Biological Engineering. The successful candidate will also have opportunities to collaborate with some of UNM's renowned research centers, such as the Center for Quantum Information and Control (CQuIC); the Center for High Technology Materials (CHTM); and the Center for Advanced Research Computing (CARC). Additionally, the candidate will play a key role in expanding the interdisciplinary Quantum Information Science and Engineering (QISE) program and contributing to the newly launched Quantum New Mexico Institute (QNM-I) initiative. QNM-I, a collaboration between UNM and Sandia National Laboratories, which will soon expand to include Los Alamos National Laboratory offers avenues for advancing collaborative research and education, with opportunities to partner with national laboratories and universities across New Mexico.

The position is for tenured and tenure-track faculty in the School of Engineering and/or College of Arts and Sciences. Tenured and tenure-track faculty in the school/college are fully funded academic year (9 month) positions.

We invite applications for tenure and tenure-track faculty in the following focus area.

Quantum materials and systems with primary areas of interest including: photonics-based quantum science and technology; system-level quantum computing and communications; quantum optics, atomic & molecular physics, and quantum information. Candidates working in areas including quantum materials; quantum sensors; advanced spectroscopy and microscopy; and applications to biophysics, physics, or engineering are strongly encouraged to apply.

Minimum Qualifications (open rank)

- PhD (or equivalent degree) at time of hire in a field relevant to quantum sciences, including

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engineering disciplines, physics, chemistry, computer science, mathematics, etc.

- A record of high-quality research productivity in the relevant fields.

Preferred Qualifications

- Record of, or potential for, securing externally funded research grants in the relevant fields
- Record of successfully mentoring and/or teaching students or trainees
- History of working collaboratively in partnership with colleagues across disciplines and/or institutions
- Record of, or potential for, engagement with national labs and/or industry in relevant fields
- A demonstrated commitment to advancing diversity, equity, inclusion, and student success, and working with diverse communities
- Record of, or potential for, teaching courses in the selected home departments

Only applications submitted through the official UNMJobs site will be accepted. If you are viewing this job advertisement on a 3rd party site, [please visit UNMJobs](#) to submit an application.

Requested Application Materials • Cover Letter (1-2 pages): Candidates should describe their suitability for the position by addressing both the minimum and preferred qualifications. They also should indicate the academic rank for which they are applying, and their top two preferred home departments, rank ordered. • Research Statement (3 pages maximum, not including references): Candidates should summarize their previous research experience and include short- and long-term research goals. They also should describe how their research plans are tied to potential funding and potential funding agencies. • Teaching Statement (2 pages maximum): Candidates should describe their teaching experience. They also should include their teaching philosophy and overall pedagogical strategy. Furthermore, candidates should describe their culturally-responsive approach to inclusive excellence in their teaching. In addition to specifying courses they would like to teach in the focus area, they should identify other courses of interest that would contribute to the course offerings of the preferred home departments. Candidates should describe any mentoring experience and should specify if done with students from underrepresented backgrounds. • Statement of Contributions to Inclusive Excellence (2 pages maximum): Candidates should discuss their record of accomplishment in advancing inclusive excellence, and their plans for advancing efforts at UNM. The statement should include specific contributions to actively mitigate inequities for any constituency. Furthermore, candidates should describe plans to mentor, support and amplify diverse voices in higher education



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and to foster healthy educational and research environments at their institution or outside. Examples of past efforts or ideas suitable for a Hispanic-Serving Institution (HSI), R1 public university will strengthen the statement. • Curriculum Vitae (CV): most recently updated CV • List of professional references: 3-5 professional references required (names and contact information at time of application).

Applicants who are appointed to a UNM faculty position are required to provide an official certification of successful completion of all degree requirements prior to their initial employment with UNM.

For best consideration, please apply by 12/6/2024. This position will remain open until filled.

EEO/AA Policy

The University of New Mexico is committed to hiring and retaining a diverse workforce. We are an Equal Opportunity Employer, making decisions without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, veteran status, disability, or any other protected class.

Contact Information

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

Contact

1 University of New Mexico
Albuquerque, NM 87131