

**Post-Doctoral Research Position - NSF MRSEC
University of Tennessee - Knoxville**

The Center for Advanced Materials and Manufacturing (CAMM) at the University of Tennessee is seeking a Postdoctoral Research Fellow with research interest and expertise in low-dimensional quantum materials. CAMM is a newly funded NSF Materials Research Science and Engineering Research Center (MRSEC) that focusses on two major initiatives: using Artificial Intelligence to tame the complexity of quantum materials, and creating new materials that can operate in extreme conditions.

The successful candidate will be primarily responsible for the synthesis of epitaxial quantum materials via molecular beam epitaxy (MBE). The materials synthesis will be supported by state-of-the-art artificial intelligence protocols. The successful candidate will work in a stimulating scientific environment with ample opportunities to broaden their professional portfolio by conducting, e.g., *in-situ* scanning tunneling microscopy and spectroscopy (STM/STS), photoemission (XPS/ARPES) experiments, and *ex-situ* transport, magnetic and other physical property measurements. The successful candidate will be positioned to drive their own scientific activities and collaborate with faculty members, postdoctoral associates, and students from the departments of Physics & Astronomy, Materials Science & Engineering, Chemistry, Mathematics, and Electrical Engineering & Computer Science, all affiliated under the CAMM umbrella.

Desired Qualifications:

- PhD in Physics or related discipline.
- A strong publication and research record.
- Research experience in MBE synthesis.
- Strong communication skills, and a demonstrated ability to work in a collaborative team environment.

Additional expertise in scanning tunneling microscopy, photoemission, transport and/or magnetometry measurements is a plus, although not essential. We welcome additional research experience in areas that support the center's artificial intelligence mission including, but not limited to, automation, active and reinforcement learning, as well as material informatics and data-driven approaches for materials discovery and device design, including machine learning methods.

Candidates with experience in more than one discipline, or interest in collaboration across disciplines, are preferred. However, candidates who can define a unique research area are equally encouraged to apply.

Applicants should provide: (1) a *curriculum vitae*, including a publication list; (2) statement of research interests and accomplishments; and (3) a minimum of two letters of recommendation, to be uploaded at [UTK-MRSEC Apply](#). Review of applications will begin on October 19, 2026, and will continue until the position is filled. For further information about this position, please contact Prof. Hanno H. Weitering (hanno@utk.edu), Prof. Norman Mannella (nmannell@utk.edu), or Prof. Wonhee Ko (wko@utk.edu).

The University respects and values people of all races, genders, creeds, cultures, and sexual orientations, and holds a deep commitment toward developing and promoting an inclusive community. We strongly encourage applications from members of groups that are underrepresented in STEM fields, as well as, candidates who will contribute in meaningful ways to the equity and inclusion goals of the department and university. The latter should be demonstrated in the candidate's Statement of Equity and Inclusion.

The University's campus is located in one of the most beautiful areas of the country, with easy access to miles of inland waterways, pristine state and national parks, diverse cultural opportunities, and a blend of convenient urban and rural living settings. Downtown Knoxville, adjacent to campus, is a thriving neighborhood filled with restaurants, shops, and indoor and outdoor entertainment venues, and is home to the Knoxville Symphony Orchestra, the Knoxville Opera Company, annual international festivals, such as the Big Ears Music Festival, and seasonal and weekly events such as Jazz on the Square, Shakespeare on the Square, and the Farmers Market.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.