

# Postdoctoral Position: Simons Collaboration on New Frontiers in Superconductivity

Deadline: October 31, 2024

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Location: University of Wisconsin-Milwaukee, Wisconsin, USA

The Simons Collaboration on New Frontiers in Superconductivity will integrate new theoretical insights with advanced numerical methods, such as machine learning and AI, to predict and discover new superconducting materials with higher critical temperatures and novel properties. Through this collaboration, we invite applications for a postdoctoral research position located at the University of Wisconsin-Milwaukee (UWM). The successful candidate will work jointly with the research groups of Prof. Daniel Agterberg and Dr. Aline Ramires. The appointment is for two years to begin January 2025. Applicants should have a PhD in physics or a related field. Our research groups have active research efforts in condensed matter theory, with expertise in correlations and topology in quantum materials, superconductivity, and strongly correlated electronic systems.

We are recruiting one postdoctoral research associate in quantum materials with an emphasis on superconductivity. The research will focus on unraveling the non-trivial effects that multiple internal degrees of freedom and their interplay with lattice symmetries have on the superconducting pairing and other electronic orders. Applicants with backgrounds in quantum materials, superconductivity, quantum geometry, topological band theory, and strongly correlated electron systems are encouraged to apply. The position includes a competitive salary and excellent fringe benefits.

Applicants should send a C.V., publication list, and a brief statement of their research interests by email to [agterber@uwm.edu](mailto:agterber@uwm.edu) and [aline.ramires@psi.ch](mailto:aline.ramires@psi.ch).

Applicants should also provide the names and e-mail addresses of two references. Review of applications will begin on Nov. 1, 2024. Questions should also be sent to the above e-mail addresses.

The University of Wisconsin – Milwaukee is an Equal Opportunity, Affirmative Action Employer.