

POSTDOCTORAL RESEARCH SCHOLAR

Job Description

Become a postdoctoral researcher in spin chemistry and quantum materials at the School of Molecular Sciences, Arizona State University. Under the mentorship of **Professor Tijana Rajh** and **Professor Justin Earley**, you will explore spin dynamics in novel molecular and supramolecular structures. Utilizing advanced techniques like transient continuous-wave and pulse Electron Paramagnetic Resonance spectroscopy—complemented by Optically Detected Magnetic Resonance and synchrotron X-ray Scanning Tunneling Microscopy—you will investigate materials encapsulating rare earth and transition metal ions within controlled environments. This research will contribute to enhanced emission applications and quantum technologies, with opportunities to tailor the project to your interests, including potential expansion into quantum sensing in nanoscale systems.

Expected start date: March/April 2025

Qualifications

- **Education:** Ph.D. in Chemistry, Physics, Materials Science, or a related field by the start of the position.
- **Experience:** Experience with magnetic resonance spectroscopy is highly desirable.
- **Skills:** Excellent writing and communication abilities, ability to work independently and collaboratively in an interdisciplinary environment, and effective mentorship to junior researchers.
- Non-U.S. citizens should be eligible for a J-1 Scholar visa for the duration of their postdoctoral position.

To Apply

Please submit a **cover letter, CV, and the contact information for at least two references** to both Professor Rajh (tijana.rajh@asu.edu) and Professor Earley (justin.earley@asu.edu). Application review is rolling until the position is filled.

