



Postdoc or Visiting Scientist Positions in the Hirschfeld and Hennig Groups at the University of Florida

Artificial Intelligence for Metastable Superconductors, Magnets, and Superhard Materials

Two postdoctoral research fellowships or visiting faculty positions are available immediately in the **Hirschfeld and Hennig research groups** in the Physics and Materials Science and Engineering Departments at the University of Florida in the area of **artificial intelligence for the discovery and design of novel superconductors, magnets, and hard materials**. The postdoc position is for two or more years, depending upon significant achievement and mutual interest. Long-term visits to the University of Florida by more senior **visiting faculty** are also solicited.

Project Description:

The successful candidate will help develop design rules and novel pathways to synthesize desired materials that are metastable and survive for long times at ambient conditions, combining the theory of superconductivity, magnetism, nonequilibrium statistical mechanics, materials informatics, and machine learning for data mining and structure.

Qualifications:

The applicant must have a Ph.D. in theoretical physics, chemistry, materials science, or a closely related field. This position requires a strong theoretical scientist with demonstrated experience in *some* of the following areas: superconductivity theory, magnetism, electronic structure theory, and machine learning methods. The applicant should be able to work independently and collaborate well with team members working towards a common goal. The scientific results are expected to be presented at national meetings and published in peer-reviewed journals. The applicant must have excellent oral and written communication skills in English and be able to interact effectively with experimental and computational members of the team.

Application:

Postdoc candidates: to apply, please provide a full curriculum vitae (including a list of all publications), contact information for three (3) references, a brief statement of research interests before Nov. 1, 2021, by email to Ms. Mary Remer, Condensed Matter Theory, U. Florida Physics (mrem@ufl.edu). **Faculty members** interested in a longer-term visit should contact Peter Hirschfeld (pjh@phys.ufl.edu) or Richard Hennig (rhennig@ufl.edu).

The University of Florida is an Equal Opportunity Employer dedicated to building a broadly diverse and inclusive faculty and staff. The University of Florida invites all qualified applicants, including minorities, women, veterans, and individuals with disabilities. The University of Florida is a public institution and subject to all requirements under the Florida Sunshine and Public Records laws.