



Job Offer from February 12, 2025

The Department of Topological Quantum Chemistry at the Max Planck Institute for Chemical Physics of Solids in Dresden offers a full time

Postdoctoral position (m/f/d)

Outstanding candidates are sought for an experimental postdoctoral opportunity located at Max Planck Institute for Chemical Physics of Solids (Dresden, Germany; PI Prof. Dr. Claudia Felser), with part-time residence at Northeastern University (Boston, Massachusetts, U.S.A.; PI Prof. Dr. Laura H. Lewis) to assist in the design, synthesis and validation of novel magnetic materials for sustainable energy applications. This two-year position may be eligible for an extension. Duties and responsibilities for this position may include:

- Synthesis, processing and characterization of new rare-earth free hard magnetic materials.
- Foster and manage transatlantic cooperation, communications and exchanges, in consultation with the project PIs.

About the laboratories: Our research groups work on a variety of research topics that aim to gain fundamental understanding of process-structure-magnetism correlations in technologically relevant soft and permanent magnetic and electronic materials. Our laboratories value diversity and expects all lab members to foster a safe, inclusive and welcoming environment.

Preferred Qualifications

Must have a Ph.D. or equivalent in the disciplines of solid state chemistry or physics, materials science or a related field and have knowledge of solid state synthesis and single crystal growth, magnetism and nanoscience. Experience in post processing like bonding and sintering is highly desirable. This position requires excellent communication skills, both interpersonal and scientific, oral and written.

General Qualifications

Candidates should be enthusiastic about working in a fast-paced, interdisciplinary, internationally collaborative environment. The successful candidate will be able to work both independently and collaboratively. Candidates should possess detailed knowledge and expertise in materials processing and characterization employing standard laboratory techniques, including x-ray diffraction, electron microscopy, calorimetry, force microscopy and magnetometry. Experience with synchrotron and spectroscopic probes is a plus.

We actively support the reconciliation of work and family life.



Our offer

- Integration in part of a vibrant international and multicultural team of scientists, engineers, technical, and administrative staff;
- Lead in cutting-edge scientific projects and work in advanced physics laboratories;
- An initial 24-month contract with the possibility of one-year extension
- Stipendium or salary according to TVöD (federal government) with 39-hour working week, 30 days of holiday as well as annual bonus and social benefits (VBL)
- Extensive training opportunities and career support

Application

The Max Planck Society strives for gender equity and diversity. We welcome applications from all backgrounds. The Max Planck Society has set itself the goal of employing more severely disabled people. Applications from severely disabled people are expressly encouraged. The Max Planck Society wants to increase the proportion of women in areas where they are underrepresented. Women are therefore expressly encouraged to apply.

Please send your application with the subject title 'Application Joint Postdoc' including your:

- Motivation letter (incl. the names/contact information of 3 individuals who can provide letters of reference)
- Curriculum Vitae (with list of publications, including hyperlink to each publication);
- Copies of the relevant degree certificates

combined in one PDF file by email to personal@cpfs.mpg.de no later than March 15, 2025.

Please find more information about the Max Planck Institute for Chemical Physics of Solids (<https://www.cpfs.mpg.de>), and the Topological Materials group (<https://www.cpfs.mpg.de/shekhar>)

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