January 14, 2025

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, but are not limited to:

- Synthesis, processing and characterization of a selection of intermetallic ferromagnetic compounds.
- Documentation, analysis, and summary of results (including digital/photographic documentation and computational/modeling/analysis as needed).
- Develop and write reports and publications, and grants; coordinate project meetings.
- Attend and participate in research meetings/seminars and other professional activities.
- Participate in career development training workshops/sessions and networking opportunities for research and mentoring.
- Foster and manage transatlantic cooperation, communications and exchanges, in consultation with the project PIs. Guide and mentor students, including participation in training to improve these skills as needed.

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 magnetic and electronic materials. Our laboratories value diversity and expects all lab members to foster a safe, inclusive and welcoming environment.

Qualifications:	Must have a Ph.D. or equivalent in the disciplines of solid state chemistry, materials science or a related field and have knowledge of magnetism and nanoscience. Must be able to undertake substantially full-time research or scholarship and work closely under the supervision of senior scholars. This position requires excellent communication skills, both interpersonal and scientific, oral and written.
Preferred 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.

Inquiries or applications (cover letter + academic CV + the names/contact information of 3 individuals who can provide letters of reference) should be sent by email to Professor Laura H. Lewis, lhlewis@northeastern.edu no later than March 15, 2025.