STAFF POSITION AVAILABLE
INSTITUTE FOR ROCK MAGNETISM, UNIVERSITY OF MINNESOTA

JOB TITLE: POSTDOCTORAL ASSOCIATE (PHD REQUIRED) OR RESEARCH ASSOCIATE
(PHD PLUS THREE YEARS EXPERIENCE REQUIRED)

MINIMUM / ESSENTIAL QUALIFICATIONS
(Education/Training/Knowledge/Skills/Abilities/and/or Physical Requirements)

A PhD in Geophysics, Physics, Geology or related field. For the Research Associate classification at least 3 years of post-PhD research experience are also required. Ability to work with sophisticated laboratory equipment. Ability to work cooperatively and constructively with a diverse group of scientists and students from around the world and to aid them with their research. The desire and ability to develop an independent research program. Physical requirements include being able to work safely with magnetic fields up to 6 Tesla, and to perform occasional field work in varied environments worldwide.

SELECTION CRITERIA/PREFERRED
(Education/Training/Knowledge/Skills/Abilities)

Knowledge of magnetism of solids, physics, and geologic sciences. Experience with superconducting susceptometers and magnetometers and various magnetic measurement techniques is also desirable. Ability to program in Pascal/Delphi, LabVIEW, Basic, Html, and familiarity with electronic databases such as MySQL. Ability to work independently and organize/prioritize work efficiently with a minimum of supervision.

DESCRIPTION OF MAJOR JOB FUNCTIONS

The Institute for Rock Magnetism is a national instrument facility funded by NSF for studies in rock/paleo/geo magnetism, that attracts a steady flow of the most advanced researchers in the world. Our instruments are available to domestic and international researchers as well as faculty and students from the UofMN. We are looking for an individual who is self-motivated, can take on a range of responsibilities, and work independently of close supervision. The major functions of this person are as follows:

• 80% participating with IRM faculty and staff in the management and supervision of facility operations:
  o Working with visiting scientists in all aspects of their research at IRM, including experiment design, specimen preparation, instrument configuration, data processing, analysis and interpretation;
  o Collaborating in research with IRM’s faculty members, post doctoral researchers, students and staff;
• Sharing responsibility for routine operational support (maintenance, calibration, and configuration of magnetic instruments including superconducting SQUID magnetometers and susceptometers, Mossbauer spectrometers, and instrument control software and computer hardware);

• Contributing to IRM's interactions with the global research community through the *IRM Quarterly* newsletter, web site, biennial conferences and workshops;

• Participating with IRM's faculty and external Review and Advisory Committee in strategic planning and in evaluation of Visiting Fellow proposals;

• Contributing to grant proposals for IRM’s operational support and for instrument acquisition/upgrades.

• 20% developing an independent research program. Including: conducting original rock magnetic research, presenting results at professional society meetings, publishing peer-reviewed articles, and writing funding proposals for research support.

For additional information, contact irm@umn.edu. Review of applications will begin on June 30 2012.

To submit an application, go to [http://www.geo.umn.edu/dept/positions/Search.html](http://www.geo.umn.edu/dept/positions/Search.html) (requisition # 172658 or 175602). The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status or sexual orientation.