

NATIONAL HIGH MAGNETIC FIELD LABORATORY

Florida State University
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Tallahassee, Florida 32310
nationalmaglab.org

Research Faculty – 36T SCH Solid-State NMR

The National High Magnetic Field Laboratory (NHMFL) of the U.S. has an opening for a solid-state NMR Research Faculty position. The primary responsibilities will be developing a research and collaborative user program utilizing the 36 Tesla Series-Connected-Hybrid (SCH), a 12 MWatt powered magnet supporting sub-ppm NMR at 1.5 GHz. Equipped with a custom-made Bruker NEO console, a unique field regulation system and a suite of MAS and oriented sample solid-state NMR probes developed at the NHMFL [1, 2] the 36T SCH magnet provides the highest magnetic field available today capable for high-resolution solid-state NMR of bio-solid and material applications. The Research Faculty will work with a team of engineers and scientists and be responsible for: (1) developing a research program in bio-solids and in material applications with quadrupolar and spin-1/2 nuclei utilizing the high-field magnets at the NHMFL; (2) supporting the 36T SCH user program, that includes NMR system management, project initiation, planning and execution with users. This Faculty is expected to be a motivated researcher with excellent communication skills, a collegial personality, a team-player, and a scientist with the vision to become a world-class researcher.

The NHMFL's NMR/MRI user program operates a state-of-the-art user facility at the Magnet Lab conducting research at the frontiers of physics, chemistry, biology, material sciences with unique magnet technologies. It has an outstanding infrastructure with an array of NMR spectrometers including 900MHz, 830MHz, three 800MHz, 600MHz MASDNP, four 600MHz and other lower field instruments. The candidate will have support from a team of engineers and scientists, for the 36T SCH, in particular, and opportunities to collaborate with national and international users, to apply for grants, to publish and to pursue individual research objectives, as well as to participate in national and international organizations and conferences.

Qualifications include a PhD in chemistry, biochemistry, biophysics, physics or materials sciences with research experiences utilizing solid-state NMR. Candidates should have excellent experimental NMR skills including spectrometer operations, data processing, pulse-sequence development and implementation, as well as being knowledgeable in NMR instrumentation and probe hardware. The candidate is expected to have excellent writing skills, a strong track record in publications, and experience working in a multidisciplinary research environment.

Interested candidates should apply to Florida State University at <https://jobs.fsu.edu> and reference Job ID #46306. Please attach your curriculum vitae, and a cover letter describing your research experience and interest in the position. For additional information, please contact Ms. Bettina Roberson, National High Magnetic Field Laboratory, Florida State University, 1800 E. Paul Dirac Drive, Tallahassee, FL 32310-2740, roberson@magnet.fsu.edu, 850-644-0855.

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See T. Cross., R. Schurko, J. Long. 2-Gam at Conference