DISK CHOPPER TIME-OF-FLIGHT SPECTROMETER INSTRUMENT SCIENTIST
NIST CENTER FOR NEUTRON RESEARCH
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

The NIST Center for Neutron Research (NCNR) seeks candidates for a position as an Instrument Scientist for the Disk Chopper time-of-flight Spectrometer (DCS). This instrument is one of several NCNR spectrometers that collectively give researchers access to dynamical phenomena spanning seven orders of magnitude in time. A broad range of scientific problems can be tackled using the DCS. Phenomena that can be studied include translational and rotational diffusion processes with information about time scales, length scales and geometrical constraints. The ability to access a wide range of wave vector transfers with good energy resolution is key to the success of such investigations. Low energy vibrational excitations and densities of states can also be studied, as well as a broad range of magnetic phenomena.

The position requires a Ph.D. in Chemistry, Chemical Engineering, Condensed Matter Physics, Materials Science, or a related subject area. The candidate should preferably have significant post-doctoral research experience, and good communication skills. Experience in inelastic scattering methods, or in other probes of dynamical processes in materials, is highly desirable. Responsibilities include cooperating with visiting researchers in conducting experiments and reducing data and participating in equipment and software development projects. Instrument Scientists are also expected to develop research programs using the DCS and/or other facilities at the NCNR. The appointment will initially be for two years with the possibility of extension. Salary will be in the range from $70,000 to $100,000 depending on qualifications and experience.

Please send expressions of interest and a resume (preferably electronically) to:
Dr. Craig M. Brown, NIST Center for Neutron Research, 100 Bureau Drive, Stop 6102, Gaithersburg, MD 20899-6102, Tel: 301-975-5134, Fax: 301-921-9847, craig.brown@nist.gov
or to
Dr. John R.D. Copley, NIST Center for Neutron Research, 100 Bureau Drive, Stop 6102, Gaithersburg, MD 20899-6102, Tel: 301-975-5133, Fax: 301-921-9847, john.copley@nist.gov

Additional information about the NCNR is at http://www.ncnr.nist.gov. Information specific to the DCS is at http://www.ncnr.nist.gov/instruments/dcs/.