

Research Associate (Postdoctoral)- National Magnetic Resonance Facility At Madison

Requirements:

A postdoctoral research associate position is immediately available at the National Magnetic Resonance Facility At Madison (NMRFAM) in the Department of Biochemistry at the University of Wisconsin-Madison. The successful candidate must have a Ph. D. in relevant computational multi-dimensional nuclear magnetic resonance (NMR) spectroscopy, or computer science and engineering fields. Expertise in developing software in a Linux environment using a variety of languages including PYTHON, C/C++, MATLAB and SQL is required. Knowledge in NMR-based structural biology and protein 3D structure is preferred. The successful candidate should be highly motivated researcher eager to communicate with the PI and have a track record of publication in quality peer-reviewed journals.

Job Duties:

Under the guidance of Dr. Woonghee Lee, the Research Associate (Postdoctoral) will develop cyberinfrastructure of the computational solid-state NMR (ssNMR) for proteins that includes automated NMR spectral analysis methods, web servers and graphical user interfaces (GUIs). The researcher will participate in developing ssNMR versions analogous to popular solution NMR tools like I-PINE (<http://i-pine.nmrfam.wisc.edu>), PONDEROSA-C/S (<http://ponderosa.nmrfam.wisc.edu>) and NMRFAM-SPARKY (<https://nmrfam.wisc.edu/nmrfam-sparky-distribution/>). The NMRFAM provides many opportunities to interact with associated faculties including Profs. John Markley, Katherine Henzler-Wildman, Samuel Butcher and Chad Rienstra and also many collaboration opportunities with external on- and off-campus groups.

Please send CV with list of references to be sent to Woonghee Lee at whlee@nmrfam.wisc.edu

About NMRFAM:

The National Magnetic Resonance Facility at Madison (NMRFAM) was established in 1987 as a NIH P41 facility under the National Center for Research Resources (NCRR), and it was transferred to NIGMS in 2012 after NCRR was phased out. NMRFAM currently occupies 20,400 ft² in the wing of Biochemistry Department completed in 1999. It includes two server rooms, a conference room, more than ten offices for NMRFAM staff members, and cubicles for students. Major equipment at NMRFAM is located in the sub-basement of the Biochemistry Laboratories building. All nine spectrometers are equipped with cryogenic probes for solution NMR and three spectrometers have ssNMR capability with a variety of ssNMR probes. The facility has excellent temperature control (± 1 °C) and three layers of electrical backup for all critical instrumentation (battery, diesel generator, and plug for an external generator). A joint computer systems administrator for NMRFAM and BMRB manages computing servers in two server rooms with four cluster mount racks at NMRFAM.

Percent Time: 100%

Salary: NIH Stipend Rate