

Job Title	postdoctoral associate
PVN ID	HC-1711-002214
Category	Research
Location	HUNTER COLLEGE
Department	Physics & Astronomy
Status	Full Time
Annual Salary	\$45,000.00 - \$50,000.00
Hour(s) a Week	35
Closing Date	Jan 27, 2018 (Or Until Filled)

General Description

A one-year postdoctoral research position, renewable by mutual consent for two additional years subject to available funding, is offered at Hunter College of the City University of New York, beginning around January 15, 2018. The research program concerns solid and liquid state NMR of materials being evaluated for electrochemical energy storage and conversion, in particular lithium battery and fuel cell applications. Current and future work involves collaborative projects with U.S. National Labs and U.S. and international universities investigating materials for renewable energy technologies. The requirements for the position are a Ph.D. in chemistry, physics, or engineering, and significant experience with standard solid state NMR techniques (e.g. CP/MAS) or pulsed field gradient diffusion methods. In addition to performing research, responsibilities include assisting in the training of graduate and undergraduate research students and routine magnet/spectrometer upkeep. Facilities include a Stelar Spinmaster (1T) Fast Field Cycling Relaxometer, Varian 500 Inova with solid state rack and MAS probes, a 400 SB Bruker Avance III spectrometer equipped with liquid-state NMR probe with a z-gradient coil (maximum 55 G/cm), a Varian Direct Digital Drive 300 with widebore magnet, MAS probes, gradient channel and pfg probe (1500 G/cm), a Chemagnetics CMX 300 with gradient channel and pfg probe (150 G/cm), a homebuilt high pressure NMR system, a Tecmag Apollo NMR system with 90 MHz permanent magnet for paramagnetic materials, and access to the NY Structural Biology NMR Center housed at nearby City College (www.nysbc.org). Interested persons should send a CV and the names and e-mail addresses of two references to Prof. Steve Greenbaum, Department of Physics & Astronomy, Hunter College of CUNY, 695 Park Avenue, New York, NY 10065; e-mail: steve.greenbaum@hunter.cuny.edu

Other Duties

Qualifications

Ph.D. in chemistry, physics, or engineering; experience with solid state NMR or diffusion NMR.

