

<b>Job Title</b>	RF Postdoctoral Fellow
<b>PVN ID</b>	HC-1901-002894
<b>Category</b>	Research
<b>Location</b>	HUNTER COLLEGE
<b>Department</b>	Physics & Astronomy
<b>Status</b>	Full Time
<b>Annual Salary</b>	\$50,000.00 - \$50,000.00
<b>Hour(s) a Week</b>	35
<b>Closing Date</b>	Feb 02, 2019 (Or Until Filled)

## General Description

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A one-year postdoctoral research position is offered at Hunter College of the City University of New York, beginning around April 1, 2019. The research program concerns solid-state NMR of materials being evaluated for advanced all-solid state rechargeable batteries. The requirements for the position are a Ph.D. in chemistry, physics, or engineering, and significant experience in standard solid-state NMR techniques (e.g. CP/MAS, MQ-MAS, etc). Experience with pulsed-field-gradient diffusion methods is advantageous. In addition to performing research, responsibilities include assisting in the training of graduate and undergraduate research students. Facilities include a 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 homebuilt high pressure NMR system based on a Tecmag Apollo NMR, a Stelar Spinmaster (1T) Fast Field Cycling Relaxometer, and access to the NY Structural Biology NMR Center housed at the nearby City College of New York ([www.nysbc.org](http://www.nysbc.org)). Some of this work will be conducted in collaboration with Prof. Rob Messinger at City College. The postdoctoral fellow will also have access to the CUNY Advanced Science Research Center (ASRC) NMR facilities, which include Bruker AVANCE III HD 600, 700, and 800 MHz spectrometers; the 600 MHz spectrometer in particular has a PhoenixNMR 1.6-mm HXY MAS probe and all three spectrometers have solution-state cryoprobes. Additional information regarding the CUNY ASRC NMR facilities can be found here: <http://structbio.asrc.cuny.edu/facilities/nmr-spectroscopy/instrument-list/> Interested persons should include a CV and the names and e-mail addresses of two references.

## Other Duties

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## Qualifications

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Ph.D. in chemistry, physics, or engineering, and significant experience in standard solid-state NMR techniques (e.g. CP/MAS, MQ-MAS, etc). Experience with pulsed-field-gradient diffusion methods is advantageous