

March 27, 2018

Dear Colleague,

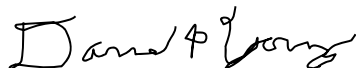
We are writing to you today to request your assistance in identifying candidates for a Postdoctoral Associate position in LaCNS (Louisiana Consortium for Neutron Scattering) – a DOE-EPSCoR program focused on building a neutron scattering effort in the state of Louisiana in hard and soft materials. We are interested in hiring a PhD scientist with experience in condensed matter physics research with a preference for a candidate with a background in the exploration of magnetic or strongly correlated materials. The research will involve polycrystalline and single crystal synthesis of interesting magnetic materials, characterization via magnetic, thermodynamic, and charge transport measurements, and neutron scattering techniques. Thus, experience in any or all of these is a positive. The successful candidate will be joining the LaCNS program at LSU where a collaborative research atmosphere has been cultivated, so that the ability to work with several faculty is necessary.

The research projects that will be pursued include explorations of noncentrosymmetric and chiral structured materials, including transition metal and rare earth intermetallic compounds, to explore the fundamental aspects of these materials. This includes investigating the origins and consequences of the Dzyaloshinskii-Moriya interaction. In addition, we expect that the postdoc will be responsible for assisting in the training of graduate students in experimental techniques and analysis as an integral part of the research program. We are confident that this will be a positive research experience for a talented scientist and that participation in our program will lead to opportunities for the postdoc to advance their career.

We require that applicants either have completed their PhD program, or will be completing their PhD work in the next few months. Experience performing neutron scattering experiments, elastic or inelastic, in their previous research is desired. We include some details below taken from the online advertisement at [https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU---Baton-Rouge/Postdoctoral-Researcher-Senior-Postdoctoral-Researcher--Physics---Synthesis--lab-characterization-and-neutron-scattering-\\_R00021429](https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU---Baton-Rouge/Postdoctoral-Researcher-Senior-Postdoctoral-Researcher--Physics---Synthesis--lab-characterization-and-neutron-scattering-_R00021429), which can be accessed for application purposes. We encourage interested parties to contact us directly through email at [ditusa@physics.lsu.edu](mailto:ditusa@physics.lsu.edu), [dyoung@phys.lsu.edu](mailto:dyoung@phys.lsu.edu), [lacns@phys.lsu.edu](mailto:lacns@phys.lsu.edu), or telephone at 225-578-1195 (DiTusa) or 225-578-2490 (Young) for more information.

We thank you for your time and attention to our request and look forward to either hearing from you about candidates who may have an interest, or from the potential candidates themselves.

Sincerely,



John F. DiTusa  
David P. Young

### Advertisement for Postdocs for LaCNS

Job Posting Title: Postdoctoral Researcher/Senior Postdoctoral Researcher (Physics - Synthesis, lab characterization and neutron scattering)

Position Type: Other Academic

Department: LSUAM Science - PA - Materials - Neutrons (John F Ditusa (00013274))

Work Location: LSU - Baton Rouge

Postdoctoral Researcher/Senior Postdoctoral Researcher: The primary responsibilities will be the synthesis of single crystal and polycrystalline materials, characterization of these samples with laboratory based techniques in preparation for neutron scattering investigations, as well as carrying out neutron scattering investigations.

Postdoctoral Researcher: 100% effort - The primary responsibilities will be the synthesis of single crystal and polycrystalline materials, characterization of these samples with laboratory based techniques in preparation for neutron scattering investigations, as well as carrying out neutron scattering investigations. Responsibilities will include participating in the training of graduate students, single crystal and polycrystalline synthesis, magnetic, thermodynamic, and charge carrier transport measurements, elastic and inelastic neutron scattering measurements, data analysis, presenting of results at conferences and meetings, and publication are expected activities.

Senior Postdoctoral Researcher: 100% effort - The primary responsibilities will lead synthesis of single crystal and polycrystalline materials, characterization of these samples with laboratory based techniques in preparation for neutron scattering investigations, as well as carrying out neutron scattering investigations. Responsibilities will include training of graduate students, single crystal and polycrystalline synthesis, magnetic, thermodynamic, and charge carrier transport measurements, elastic and inelastic neutron scattering measurements, data analysis, presenting of results at conferences and meetings, and publication are expected activities.

Required Qualifications: Postdoctoral Researcher: Ph.D. in Physics or related field (ABD candidates will be considered); Senior Postdoctoral Researcher: Ph.D. in Physics or related field plus three years of related postgraduate experience.

Special Requirements: Must be willing to travel. Some national and international travel may be required.

Desired qualifications: Postdoctoral Researcher: two years of experience with expertise in one or more of the following areas: synthesis, lab characterization and neutron scattering; Senior Postdoctoral Researcher: three years of experience with expertise in one or more of the following areas: synthesis, lab characterization and neutron scattering.

Additional Position Information: The position is expected to be open after May 1, 2018 for an initial one-year appointment with the option to be renewed for a second year. Salary and level will be

dependent upon candidate's qualifications.

**Additional Job Description:**

**Special Instructions:**

Please provide three references including name, title, phone number and email address. Three letters of recommendation are required including from PhD and any previous postdoctoral advisors. Please attach ALL documents under the Resume/CV section of your application.

A copy of your transcript(s) may be attached to your application (if available).  
However, original transcripts are required prior to hire.

Posting Date: March 26, 2018

Closing Date (Open Until Filled if No Date Specified):

**Additional Position Information:**

**Background Check** - An offer of employment is contingent on a satisfactory pre-employment background check.

**Benefits** - LSU offers outstanding benefits to eligible employees and their dependents including health, life, dental, and vision insurance; flexible spending accounts; retirement options; various leave options; paid holidays; wellness benefits; tuition exemption for qualified positions; training and development opportunities; employee discounts; and more!

**EEO Statement:** LSU is committed to diversity and is an equal opportunity / equal access employer.

**HCM Contact Information:** Questions or concerns can be directed to the LSU Human Resources Management Office at 225-578-8200 or emailed [HR@lsu.edu](mailto:HR@lsu.edu)