

## Postdoctoral Research Associates at the China Spallation Neutron Source

**Job Description:** The polarized neutron group at the CSNS is now seeking two postdoctoral research associates to join on-going research. Successful candidates will join an international research group and work on developing polarized neutron and polarized  $^3\text{He}$  technologies for the CSNS. The candidates will specifically be involved in developing a  $^3\text{He}$  metastability exchange optical pumping (MEOP) program within the polarization group for research in polarized neutron scattering, precision magnetometry, lung MRI, and spin-exchange interactions.

### Basic Qualifications:

- Ph.D. in physics, materials science, or closely related field
- Experience with either neutron instruments or polarized  $^3\text{He}$
- Strong English oral and written communication skills

### Preferred Qualifications:

- Experience with neutron polarization technology ( $^3\text{He}$  spin filters, supermirrors)
- Experience with optical pumping techniques
- Experience with hyperpolarized noble gases ( $^3\text{He}$  or Xe)
- Experience with systems that included nuclear magnetic resonance, ultra-high vacuums, high-power laser systems, high magnetic fields ( $> 1$  Tesla), magnetometry, plasma discharges, or hot glass work.
- Oral and written communications skills in Mandarin Chinese

**About the CSNS:** The China Spallation Neutron Sources (CSNS) is one of the four large scale spallation neutron sources in the world. Located in the Greater Bay Area among Shenzhen, Guangzhou, Hong Kong, and Macau, CSNS supports scientific research locally and worldwide. Since operation started in Aug. 2017, the CSNS has commissioned three neutron instruments including a powder diffractometer, a SANS beamline, and a polarized neutron reflectometer, with 17 other instruments in development. To learn more about the CSNS go to <http://english.ihep.cas.cn/csns/> or <http://csns.ihep.cas.cn/>.

**Location & Duration:** The workplace is located in Dongguan, Guangdong, China. The position is a 2-year postdoc appointment with an internationally competitive annual salary of ¥450,000 CNY (~\$70k USD) and apartment support. Outstanding candidates will be considered for an extension and long-term support.

**How to Apply:** Applicants should send their CV along with two letters of recommendation to Dr. Matthew Musgrave at [musgravemartin@ihep.ac.cn](mailto:musgravemartin@ihep.ac.cn) and Dr. Tony Tong at [tongxin@ihep.ac.cn](mailto:tongxin@ihep.ac.cn).