



中国散裂中子源  
China Spallation Neutron Source



### *Job Posting Title*

Postdoctoral Research Associate: Neutron scattering studies of quantum materials and functional materials at China Spallation Neutron Source (CSNS)

### *Purpose*

China Spallation Neutron Source (CSNS) is the first pulse neutron source located at Dongguan, Guangdong Province, China, which is operated by Institute of High Energy Physics (IHEP), Chinese Academy of Sciences (CAS). It obtained first neutron in September 2017 and passed national acceptance in August 2018. It will achieve 20 neutron instruments after Phase-I, CRG and CSNS-II constructions, including neutron diffraction (NPD), small angle neutron scattering (SANS), neutron reflectometer (NR), inelastic neutron scattering (INS) and neutron imaging (NI) techniques for diverse range of scientific and industrial studies.

The Neutron Science Center has immediately opened one or more postdoctoral associates to give early career researchers the opportunity to further develop their scientific excellence and expand their studies based on neutron scattering. Two positions are addressed on the quantum materials studies using neutron scattering, especially neutron diffraction and spectroscopy. These positions represent an excellent opportunity to study quantum matter at CSNS.

### *Duties/Responsibilities*

- Study quantum materials in frustrated magnetic materials, topological semimetals, etc by neutron diffraction and spectroscopy.
- Publish scientific papers and presenting results from this research at national and international meeting as appropriate.
- Participate the design and construction of the EDS spectrometer and SCND diffractometer at CSNS-II.

### *Qualifications Required*

- PhD in condensed matters physics, chemistry, materials science and applied physics or related fields, e.g. crystallography.
- Proven track record in solid-state research.

- Good interpersonal, communication and presentation skills.
- All degree requirements must to be completed before the appointment can begin.

*Preferred:*

- Knowledge of scattering methods (not mandatory)
- Self-motivated.
- Demonstrated ability to interact effectively with colleagues at all levels an in multi-disciplinary teams.

*Our Offer:*

- Opportunity to work on topic challenges with access to cutting-edge and partly unique instruments, laboratory facilities in China.
- Exciting work environment on an attractive research campus nearby Songshan Lake, Dongguan.
- Temporary position for 2 years with an internationally competitive salary (approx. 400k RMB/yr. before tax).

*Application and Contact*

Please provide your curriculum vitae and cover letter, as well as a list of publications and invited talks, and arrange for at least two recommendation letters of professional reference. Applications will begin evaluated regularly and continue until the position is filled.

You can contact Dr. Erxi Feng ([fengex@ihep.ac.cn](mailto:fengex@ihep.ac.cn)) for more information about these positions.