

Postdoctoral Researcher Positions with ATLAS Experiment

The particle and nuclear physics division at Tsung-Dao Lee Institute (TDLI) and Institute of Nuclear and Particle Physics (INPAC) at Shanghai Jiao Tong University (SJTU) invite **2-3 postdoctoral positions to work on the ATLAS experiment at LHC.**

The successful candidate(s) who focus(es) on data analyses are expected to take a leading role in either **ttH→multi-leptons analysis or Di-Higgs search analysis or four top quark production search analysis or other related analysis**, using full Run-2 dataset and preparing for Run-3. It can also be discussed to work with partial time on detector upgrade project and performance studies. Knowledge and experience in C++ and/or python programming languages is preferred. One successful candidate is expected to concentrate on **High Granularity Timing Detector R&D** and general hardware work. This candidate is also encouraged to work on analyses and performance studies. Experience on detector hardware work will be advantageous. All candidates should have obtained PhD in particle physics or related field prior to the start of appointment. The initial appointment is for 2 years with possible renewal up to 4 years based on mutual satisfaction.

TDLI offers competitive compensation and benefit package including subsidized housing or living allowance. We also encourage and support promising candidate to apply for the prestigious **“Tsung-Dao Lee Postdoctoral Fellowship”** and **“Chung-Yao Chao Postdoctoral Fellowship”** for additional benefits. English is the working language at the institute. The successful candidate can be based at CERN (or Shanghai), and has chance to travel to and work in Shanghai (or vice versa) if needed.

TDLI, initiated by Prof. Tsung-Dao Lee, is a newly established national research institute and the founding director is Prof. Frank Wilczek. SJTU is the contractor and trustee of TDLI and is in charge of the operation of TDLI. The ATLAS group in TDLI/SJTU have 7 faculties and are involved in several analysis topics, such as Higgs properties measurement, Standard Model electroweak precision measurements, top quark measurements and searching for New Physics beyond the Standard Model. The group have also contributed to ATLAS Muon spectrometer Phase II upgrade and High Granularity Timing Detector R&D.

For full consideration, applications should submit CV and a brief research statement to Prof. Kun Liu (kun.liu@sjtu.edu.cn), Prof. Liang Li (liangliPHY@sjtu.edu.cn), Prof. Jun Guo (jun.guo@sjtu.edu.cn) and arrange three letters of recommendation to be sent to the same email addresses by February 29, 2020. **The review of application will start immediately after all materials completion, and continue until the position is filled.**

For any further information, please contact Prof. Kun Liu (kun.liu@sjtu.edu.cn) and Prof. Liang Li (liangliPHY@sjtu.edu.cn).

There are other two general calls from TDLI/INPAC with wider topics can be chosen:

- physics-ads: <https://labs.inspirehep.net/jobs/1764162>.
- detector-ads: <https://labs.inspirehep.net/jobs/1764322>.