

The ATLAS experimental High Energy group at Stony Brook University has an opening for a Postdoctoral Researcher to work on the ATLAS experiment. The Stony Brook group comprises 3 faculty members, 2 senior researchers, 4 post docs and graduate students. Our group is broadly active in Higgs physics and related topics as well as detector upgrades and operations. This Postdoctoral position will have an emphasis on searches for new physics involving Higgs boson decays and on LAr calorimeter electronics upgrades and/or operations.

Required Qualifications: PhD degree in High Energy Physics or foreign equivalent by the start of the appointment. Extensive experience in the analysis of data from high energy particle collisions.

Preferred qualifications: Experience with object performance studies. Good knowledge in at least one of: detector design, construction, commissioning or operation. Experience with detector read out electronics, and implications on physics performance, is particularly useful.

Brief Description of Duties: The primary purpose of this position is performing research using data taken with the ATLAS detector. While an applicant is free to propose a research program, the default research is searches for new physics reactions which have at least one Higgs boson in the production or decay.

Duties:

- Perform research for new physics involving Higgs boson decays and on LAr calorimeter electronics upgrades and/or operations.
- Participate in the operation of the ATLAS LAr calorimeter or in the development and testing of components of the LAr HL-LHC (Phase II) upgrade.
- Creatively generate new ideas to approach research topics to explore.
- Work with faculty, other post docs and graduate students during the course of the research. Mentor graduate and undergraduate students.
- Present results of research at conferences and workshops.
- Other duties as assigned.

Travel Required: The position can be based either at CERN or at Stony Brook University. If the position is based at Stony Brook occasional travel to CERN will occur once global health conditions permit it. Travel to international conferences or ATLAS workshops may also happen.

The position is available starting from December 2020 and applications will be considered until the position is filled. To ensure fullest consideration, candidates should apply by October 30th, 2020. The appointment is initially for 3 three years with the possibility of extension to a maximum of five years. This position is a term position supported by research funds and the continued support will be dependent on the availability of those funds.

Applicants should submit a cover letter, curriculum vitae, and the names, institutions, email addresses of three references at:

<https://stonybrook.taleo.net/careersection/2/jobdetail.ftl?job=2002002>

In addition, applicants should have their reference letters sent to Ms. Tracy Hillenbrand, Tracy.Hillenbrand@stonybrook.edu including TMS 2002002 in the email subject line.

Special Notes: The Research Foundation of SUNY is a private educational corporation. Employment is subject to the Research Foundation policies and procedures, sponsor guidelines and the availability of funding. FLSA Exempt position, not eligible for the overtime provisions of the FLSA. Minimum salary threshold must be met to maintain FLSA exemption.

Visit [The Office of Postdoctoral Affairs](#) to learn more about our postdoctoral community.

Resume/CV and cover letter should be included with the online application.

Stony Brook University is committed to excellence in diversity and the creation of an inclusive learning, and working environment. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, familial status, sexual orientation, gender identity or expression, age, disability, genetic information, veteran status and all other protected classes under federal or state laws.

If you need a disability-related accommodation, please call the university The Office of Equity and Access (OEA) at (631) 632-6280 or visit [OEA](#)

In accordance with the Title II Crime Awareness and Security Act a copy of our crime statistics can be viewed [here](#).

Visit our [WHY WORK HERE](#) page to learn about the **total rewards** we offer.