Young Investigator Grant in Experimental HEP

The São Paulo Research and Analysis Center (SPRACE) is seeking highly qualified young researchers to work in association with the Compact Muon Solenoid (CMS) group in São Paulo. The SPRACE research group is engaged in the CMS data analysis investigating the physics beyond the standard model and heavy ions collisions. We are also involved in the R&D for the CMS upgrades developing the Level 1 trigger for the tracking detector.

The Young Investigator Award provided by FAPESP, the São Paulo Research Foundation, contemplates the grant and financial support of the scientific activities of an outstanding researcher, which includes materials, consumables, third-party services, transportation and maintenance for research activities, support to visiting researchers, and fellowships in different levels. Additional Benefits Funds are given to the researcher in order to cover expenses in scientific and technological conferences and short-term research internships abroad.

The position

The successful applicant is expected to:
• Take a leading role in the instrumentation activities of SPRACE
• Participate in the R&D for the CMS upgrade
• Interact with different HEP groups worldwide
• Travel regularly to CERN to work on site
• Support and advise interns and students of the project

Requirements

Applicants are expected to have a Ph.D. on Experimental High Energy Physics or Electrical and Electronic Engineering, with at least one year as Post-doctoral fellow and previous experience in one of the LHC experiments. The applicants must have:

• Ability to carry out independent research in HEP with interest and experience on instrumentation
• Strong motivation to participate in challenging R&D projects
• Excellent leadership and communication skills
• Ability to work in a targeted, structured, and productive manner in a multidisciplinary team

SPRACE is committed to the principles of equal opportunity and affirmative action.

Applications from members of minority groups are encouraged.

Appointment Period

These appointments are initially for 2 years and could be extended up to 5 years, depending on the results of midterm evaluation carried out by a committee from the funding agency.
Payment and Other Advantages

The monthly income is fixed by FAPESP and nowadays is R$ 7,748,40 (tax exempt). In addition to the remuneration, the candidate will receive:

• Travel ticket to/from São Paulo
• Accommodation allowance corresponding to one month of salary
• Overhead funding for direct expenses with research Infrastructure, equivalent to 15% of the initial total concession
• Additional Benefits Funds are given to the researcher in order to cover expenses in scientific and technological conferences and short-term research internships outside the State of São Paulo.
• Associated submissions to support visiting researcher and student fellowships (Scientific Initiation, Master, and PhD degrees).
• Materials, consumables, third-party services, transportation and maintenance for research activities, support for visiting researchers, and fellowships in different levels.

How to apply

Please provide an application letter, résumé of work experience, and at least two letters of recommendation to: Sergio F. Novaes (Sergio.Novaes@cern.ch)

Deadline for application

The deadline is 30 June 2016. We reserve the right not to make an appointment and continue searching after the closing date. Only shortlisted candidates will be contacted. Shortlisted candidates must be available for an interview where we expect a short presentation on the previous achievements and proposed research plan. The successful applications will be reviewed by FAPESP in a comparative analysis taking into account previous realizations of the young researcher in terms of publications, and other parameters, that suggest the involvement in world class research and in relevant topics in the research field. The expected average length of the review process for this type of Award is about 120 days. For further details, see “Guidelines for the Young Investigator Awards” at http://www.fapesp.br/en/yia.