FACULTÉ DES SCIENCES
SECTION DE PHYSIQUE
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UNIVERSITÉ DE GENÈVE

# UNIVERSITY OF GENEVA

The Department of Particle Physics at University of Geneva has an immediate opening for a

## Postdoctoral Research Associate in experimental particle physics

Candidates must have (or about to obtain) a PhD degree in physics, appropriate experience in experimental Particle Physics, and a good knowledge of detectors, data acquisition and data analysis, and have demonstrated the capability to independently complete a complex particle physics measurement or a hardware project. The position involves also some teaching and supervision of students. Mastering or willingness to learn French will be appreciated.

The position is on the Mu3e experiment at the Paul Scherrer Institute (PSI) in Villigen (CH). Mu3e will search for the neutrinoless lepton flavor violating muon decay $\mu^+ \rightarrow e^+e^+e^-$ using the world most intense continuous muon beam (see https://www.psi.ch/de/mu3e). The Mu3e detector is a concentrate of leading-edge technology and represents a unique opportunity to make an extremely sensitive measurement, that might reveal new physics beyond the Standard Model. First physics data are expected in 2024. At the University of Geneva we are in charge of the scintillating fiber timing detector including the associated front-end electronics. This sub-detector complements the silicon pixel tracker based on the HV-MAPS technology. We are also involved in the simulations of physics processes and preparations for the analysis of first data.

The selected candidate will rapidly take important responsibilities in the Mu3e experiment in close cooperation with the other Mu3e groups from Switzerland, Germany, and UK. In the first phase she/he will be in charge of the commissioning and calibration, validation of the front-end electronics, and development of the readout for the fiber detector. She/he will be also in charge of test beam activities. Frequent travels and stays to PSI are expected.

The duration of the contract is for 2 years. Candidates should preferably be less than 32 years old. The position will be attributed when an excellent and highly motivated candidate will have been selected. Interested candidates should submit at their earliest convenience a brief statement of research interests, curriculum vitae, and three reference letters to:

Mme Liliane Nagy (Liliane.Nagy@unige.ch)
Secrétariat
Département de physique nucléaire et corpusculaire
24, Quai Ernest-Ansermet
CH-1211 Genève 4

Information concerning this position can be obtained from Dr. Alessandro Bravar (Alessandro.Bravar@unige.ch) to whom it is recommended to address an electronic copy of the application.