Call for 2016 DESY-ONACPR Fellowship Applicants

## **Research Laboratory: DESY (*Please reference to DESY-ONACPR-2016-17)***

### Division/Group: FH-FLC

### Supervising scientist: Jenny List Email/Phone: [jenny.list@desy.de](mailto:jenny.list@desy.de) / 3681

### Research Field: *experimental particle physics*

**Position:** Postdoctoral Research in Physics of Future e+e- Colliders

Currently, several proposals for future e+e- colliders operating at energies from the Z pole to a few TeV are being discussed, including both Linear and Circular Colliders. Prime objective of this next generation of colliders is the search for physics beyond the Standard Model of particle physics via the precise characterisation of the recently discovered Higgs particle. The FLC group at DESY is one of the world-wide leading groups in the preparation for the International Linear Collider. In this project, the successful applicant should in particular investigate the possibility to discover or constrain BSM models from the measurement of the invisible decay rate of the 125 GeV Higgs boson, for instance to two Dark Matter particles, in particular at center-of-mass energies of about 250 GeV.

**Research Area:**

**Specific Requirements:**

Very good knowledge of particle physics and of at least one programming language, ideally C++. Strong interest in Higgs & BSM physics. Experience in large scale data analysis is beneficial

**Work Place:** Hamburg

**Earliest Start:** December 2016

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate)

**Further Remarks:**