Call for 2015 DESY-ONACPR Fellowship Applicants

**Code: DESY/2015/10**

**Research Laboratory: DESY**

**Division/Group: FH / CMS**

Supervising scientist: Andreas Mussgiller (andreas.mussgiller@desy.de,

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Research Field: Particle Physics, Large Hadron Collider

Position: Postdoctoral Research in CMS, Phase 2 Tracker Upgrade

For the high-luminosity era of the LHC, the CMS experiment will replace its tracking detector by a completely new system. The new CMS tracker will have higher granularity and improved position resolution. In addition, the novel detector modules will provide information to the level-1 trigger of the experiment.

The DESY CMS group is involved in the design of the future detector modules and plays a lead role in the development of the support structures for the tracker end caps.

In the coming phase of the R&D we seek to produce prototypes of the pixelated module and prepare for mass production.

**Research Area:**

**Specific Requirements:**

* PhD in physics
* Experience in detector development
* Experience in operating laboratory equipment

**Work Place:** Hamburg

**Earliest Start:** December 2015

**Language Requirement:** fluent in English

**Further Remarks:** The DESY ATLAS and CMS groups take lead roles in the research and development towards tracking detectors for the HL-LHC. The DESY particle physics division hosts a number of labs with the required infrastructure to carry out the necessary R&D. The activities are complemented by a strong team of engineers and technicians, as well as dedicated workshops.