Call for 2015 CSC Fellowship Applicants

## **Helmholtz Centre: GSI Helmholtzzentrum für Schwerionenforschung**

## **Department/Institute: Helmholtz Institute Jena (main working place will be Darmstadt)**

## **Supervising scientist: Dr. Wolfgang Quint**

## **University for Registration (for those looking for a dissertation): University of Heidelberg**

## **Research Field: Photon and Particle Spectroscopy**

**Position:** PhD Student **×** Sandwich PhD Student **□** Postdoc

* Photon and Particle Spectroscopy
* Nonlinear photon effects
* Experimental Strong-Field Quantum Electrodynamics (QED)
* Penning trap for highly-charged ions

We are currently setting up an experiment which features a dedicated Penning trap for the preparation of well-defined ion targets and the investigation of their reaction with high-intensity lasers.

Website: <https://www.hi-jena.de/en/research_areas/photon_particle_spectroscopy/strong_field_qed/penning_trap/>

**Research Area:**

**Specific Requirements:**

To prepare a letter of support for your CSC fellowship application we need some information about you. Please submit the material as described on our webpage

<http://www.hi-jena.de/en/helmholtz_institute_jena/rs_aps/application/>

If your profile meets our requirements, we will inform you and provide you two letters of support signed by your future supervisor and the head of the Research School, respectively

* Ultra high vacuum and/or cryogenic techniques
* High-sensitivity electronics
* LabView programming skills
* Enthusiams for high-precision experimental physics
* Basic knowledge in quantum mechanics and laser-matter interaction
* Proficiency in the English language

**Work Place: GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt**

**Earliest Start: 1 July 2015**

**Language Requirement: English**

**Email Address: w.quint@gsi.de**