Call for 2015 CSC Fellowship Applicants

## **Helmholtz Centre:** **GSI Helmholtz Center for Heavy Ion Research**

## **Department/Institute: Helmholtz Institute Jena**

## **Supervising scientist: Prof Matt Zepf**

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

## **Research Field:**

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

Electron Laser Interactions in the high field QED regime.

Lasers have entered the regime where the Schwinger field can be reached in the restframe of relativistic electrons. In this regime a transition from to trajectories dominated by quantum radiation reaction takes place together with the production of copious X-rays. The aim of this project will be to investigate this new and exciting regime using state of the art lasers and diagnostics.

**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 from signed by your future supervisor and the head of the Research School, respectively

Experimental Interest

Programming abilities for data analysis.

Optics/Laser/Plasma knowledge beneficial (not essential for PhD)

**Work Place: Helmholtz Institute Jena**

**Earliest Start:** Spring 2015

**Language Requirement:** English mandatory (German an advantage)

**Email address:** m.zepf@uni-jena.de