Call for 2015 CSC Fellowship Applicants

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

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

## **Supervising scientist: Dr. Sergey Rykovanov**

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

## **Research Field: Novel sources of x-ray radiation / attosecond physics**

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

Compact sources of x-rays are of great importance in biology, chemistry and material science. The aim of the PhD project is to study novel mechanisms of femtosecond and attosecond x-ray generation based on High-Harmonic Generation (HHG), Synchrotron Radiation (SR) and Compton Scattering (CS). The work will be theoretical.

**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

The successful candidate should have a strong interest in some of these topics: radiation generation physics, plasma physics, accelerator physics, physics of Free Electron Lasers. It is also expected that the candidate will also have interest in developing/using massively parallel software.

**Work Place: Jena/Germany**

**Earliest Start:** as soon as possibe

**Language Requirement:** English for work

**Email Address:** serge.rykovanov@gmail.com