

# Call for 2016 GSI-ONACPR Fellowship Applicants

**Research Laboratory:** GSI Helmholzzentrum für Schwerionenforschung GmbH

**Division/Group:** atomic physics / laser cooling

**Supervising scientist:** Dr. Danyal Winters

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**Research Field:** Laser cooling of stored relativistic heavy ion beams

**Position:** Postdoctoral Researcher

**Research Area:**

Laser cooling is mostly applied to light ions in low charge states and at low velocities. We address the opposite sides of these cases, *i.e.* heavy ions in high charge states and at very high velocities. Here, laser cooling implies reducing the longitudinal temperature of ions that travel with almost the speed of light. In this research field, accelerator physics meets atomic physics and laser physics. We require the best of all fields and, therefore, seek a candidate with a strong background in (at least) one of these fields to contribute to the ongoing and future activities.

**Specific Requirements:**

Preferably, the candidate studied and holds a PhD in experimental physics and has *hands-on* experience with either ultra-high vacuum techniques and equipment, or photon detection systems, or data acquisition systems, or laser systems.

**Work Place:** Darmstadt

**Earliest Start:** December 2016

**Language Requirement:** English (with certificate)

**Further Remarks:** (none)