Helmholtz Call for 2019 CSC Fellowship Applicants

Helmholtz Centre: Forschungszentrum Jülich GmbH – www.fz-juelich.de
Department/Institute: Peter Grünberg Institute, Electronic Properties (PGI-6) http://www.fz-juelich.de/pgi/pgi-6/EN/Home/home_node.html
Supervising scientist: Prof. Dr. Markus Büscher
Research Field: Fundamentals of Future Information Technology - FIT
Position: PostDoc □ Visiting Scholar ■

Research Area:
Generation of GeV polarized-proton beams in a compact laser driven particle accelerator with the help of a novel polarized hydrogen gas target

Specific Requirements:
(1) PhD degree in Nuclear and Particle Physics with knowledge of hadron-hadron interactions
(2) Laboratory experience on laser optics or on ion beam accelerators, e.g. super high vacuum, particle detectors, fast electronics and DAQ
(3) Experience in Monte Carlo simulation, in particular with GEANT4 and ROOT
(4) Good English in speaking, reading and writing

Funding: CSC-scholarships will be increased by hosting institution (500 €/month and costs for health, emergency-call and liability insurance (50 €))
Duration of stay: 2 years
Work Place: Forschungszentrum Jülich, Germany (near Cologne)
Earliest Start: September 2019
Language Requirement: Very good knowledge of English language, written and spoken. A German language course will be offered parallel to the project.

Name and Address of the Supervisor: Prof. Dr. Markus Büscher, Forschungszentrum Jülich, Peter Grünberg Institute (PGI-6), 52428 Jülich, Germany m.buescher@fz-juelich.de