

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), 52425 Jülich, Germany
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