

GSI Helmholtzzentrum für Schwerionenforschung in Darmstadt operates one of the leading particle accelerators for science. In the next few years, the new FAIR (Facility for Antiproton and Ion Research) one of the world's largest research projects, will be built in international cooperation. GSI and FAIR offer the opportunity to work together in this international environment with a team of employees committed to ensure each day to conduct world-class science.

GSI aims to strengthen the engagement in CMOS active pixel sensor technology. These novel highly granular and ultra-thin silicon pixel sensors provide ground breaking progress for numerous applications in subatomic physics including high-precision charged particle tracking and vertex reconstruction. Together with its international partners of the EU-Cremlin+ initiative, GSI participates in the development endeavor of a next generation of those sensors and the corresponding technologies for integration into complex detector systems. The related research activities cover commissioning and tests of latest sensor prototypes, the mechanical integration of the 50µm thin devices and building a suited high-bandwidth DAQ system. In this context FAIR opens a position for a

**Post-Doc (d/f/m)**  
**in the area of nuclear physics, sensor technology, MAPS and instrumentation**  
**Posting ID: 21.05-771100**

who will work under the supervision and technical guidance of the GSI detector laboratory.

The successful candidate will take over responsibility for projects within the above presented research activity and carry them out in an independent and responsible way. Moreover, the candidate will represent his/her activity within and beyond our international collaboration.

**The successful candidate:**

- Must have a PhD degree preferably in nuclear instrumentation and semiconductor detector technology.
- Must be fluent in spoken and written English. German skills are of advantage.
- Should have a robust basic understanding in subatomic physics and semiconductor physics. Knowledge in silicon detector technology, electronics, PCB-design, micro mechanics and software programming (C++/Root, VHDL) are of advantage.
- Should have a hands-on mentality and preferably first experience in project management.
- Should impress us with motivation and personality.

**We offer:**

- A 3 years working contract according to TVöD standard of the public service in Germany including the related health insurance and retirement plan.
- Salary is equivalent to that for public employees as specified in the collective agreement for public employees (TVöD Bund).
- The opportunity to learn about and participate in leading edge research on numerous questions related to latest particle detector technologies.
- Joining an international research team (English as working language).

FAIR supports the vocational development of women. Therefore, women are especially encouraged to apply for the position.

Handicapped persons will be preferentially considered when equally qualified.

Information about FAIR and GSI is available at [www.gsi.de](http://www.gsi.de) and [www.fair-center.eu](http://www.fair-center.eu).

Are you interested in joining the instrumentation side of heavy ion and particle physics? Then contact us:

Dr. Christian Schmidt ([C.J.Schmidt@gsi.de](mailto:C.J.Schmidt@gsi.de))

Dr. Michael Deveaux ([m.deveaux@gsi.de](mailto:m.deveaux@gsi.de))

If you find this position interesting and challenging and would like to work in an exceptional, international, scientific environment, please submit your application together with information of your earliest possible starting date and the posting ID above until February 22, 2021 to:

[bewerbung@gsi.de](mailto:bewerbung@gsi.de)

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