

# PhD student (all genders) to work on antiproton polarization studies

Online seit 17.10.2024 | 2024-10-17-895209 | Wissenschaftliche:r Mitarbeiter:in

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## Stellenbeschreibung

The Chair of Experimental Physics I - FFN at the Faculty of Physics and Astronomy is looking for a

**PhD student (m,f,x), for 3 1/2 years, 25.8895 hours per week, TVL E 12/13**

The department FFN (FAIR Forschung NRW) at the GSI in Darmstadt in cooperation with the RUB performs basic research in the field of experimental hadron physics. The experimental studies are realized at the GSI accelerator SIS18 in preparation of experiments at the future FAIR facility and also at other accelerator facilities like JLAB or CERN.

The advertised PhD-position is devoted to experimental studies of antiproton polarization which will be performed by a measurement of the elastic antiproton-proton scattering at the testbed of the CERN PS accelerator.

### Your tasks:

- Preparation of detector components
- Operation of a liquid hydrogen target
- Setup of a data acquisition system based on TRB3 boards
- Setup of the experiment at CERN and perform the measurements
- Programming of the analysis software
- Simulation studies with GEANT4

## Anforderungsprofil & Qualifikationen

### Your profile:

- B. Sc or M.Sc. or equivalent degree in experimental nuclear/particle physics (to be obtained until the start of the contract)
- Knowledge in experimental particle physics

- Experience in working with particle detectors including data acquisition
- Programming skills (C++, ROOT, Python) and familiarity with Linux
- Ability to work systematically and independently, as well as in a team
- Excellent oral and written communication skills.

#### **Our offerings:**

- Challenging and varied tasks with a high degree of personal responsibility
- Support from and collaboration with competent colleagues
- team-oriented collaboration in a committed, international and appreciative team
- a modern well-equipped workplace
- a wide range of sports with over 80 types of sport and a university gym

#### **Additional information:**

At the request of the applicant (m,f,x), the staff council may be involved in selection interviews. <https://www.wpr.ruhr-uni-bochum.de/>

If the position is funded by third-party funds the employee has no teaching obligation.

German language courses are offered by the University Language Center (ZfA) in the field of German as a Foreign Language (DaF).

<https://www.daf.ruhr-uni-bochum.de/sbgk/index.html.en>

You can find information about TVL at: <https://oeffentlicher-dienst.info/>

**The Ruhr-Universität Bochum is one of Germany's leading research universities, addressing the whole range of academic disciplines. A highly dynamic setting enables researchers and students to work across the traditional boundaries of academic subjects and faculties. To create knowledge networks within and beyond the university is RUB's declared aim.**

The Ruhr-Universität Bochum stands for diversity and equal opportunities. For this reason, we favour a working environment composed of heterogeneous teams, and seek to promote the careers of individuals who are underrepresented in our respective professional areas. The Ruhr-Universität Bochum expressly requests job applications from women. In areas in which they are underrepresented they will be given preference in the case of equivalent qualifications with male candidates. Applications from individuals with disabilities are most welcome.

#### **Contact details for your application:**

Prof. Dr. James Ritman, Phone: +49234 32 23532

Travel expenses for interviews cannot be refunded.

For information on the collection of personal data in the application process see:  
<https://www.ruhr-uni-bochum.de/en/information-collection-personal-data-application-process>.

We are looking forward to receiving your application with the specification ANR: 3900 until 28.10.2024, send by e-mail to the following address:

Please get in touch with the contact person named above if you would like to use an alternative application channel.

## Vorteile für Mitarbeitende



- Sport- und Freizeitangebote
- Weiterbildungsmöglichkeiten
- Vergünstigtes Jobticket
- Arbeitsplatz in lebendiger Metropolregion

## Stellenmerkmale

Beschäftigungsart	Wissenschaftliche:r Mitarbeiter:in
Beschäftigungsumfang	Teilzeit (befristet)
Home Office	Nein
Bewerbungslink	<a href="https://jobs.ruhr-uni-bochum.de/jobposting/892778568d31e1100893a5c37fd25232ba9f9802?ref=stellenwerk">https://jobs.ruhr-uni-bochum.de/jobposting/892778568d31e1100893a5c37fd25232ba9f9802?ref=stellenwerk</a>

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## Kontaktdaten

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E-Mail	

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<https://uni.ruhr-uni-bochum.de/de/stellenangebote>