

Research Assistant/Associate (f/m/d)

Experimental Particle Physicist, PhD position

Lehrstuhl für Experimentalphysik I B und I. Physikalisches Institut

Job-ID: V000003178

Location: Aachen

Contract duration: Fixed-term employment

Job evaluation: EG 13 TV-L

Start date: 01.10.2022

Working hours: Part-time (75%)

Published: 01.07.2022

Application time: 31.08.2022

Job type: Academic staff

Our Profile

The AMS group at the I. Physics Institute of RWTH Aachen, led by Prof. Dr. Stefan Schael, is opening a PhD student position in the field of experimental astroparticle physics, focused on the operation of the AMS-02 experiment (<https://ams02.space>) on the International Space Station (ISS) and the analysis of the data collected since the installation of AMS-02 on the ISS in 2011.

The AMS-02 Transition Radiation Detector, the Anti-Coincidence Counter and the Tracker Laser Alignment System were constructed in Aachen. Our group is responsible for the operation and calibration of these subdetectors. Our analysis of the data taken with the AMS-02 detector since 2011 comprises the calibration of subdetectors, the reconstruction of particles and studies of electron/positron and light isotopes fluxes.

Your Profile

Applicants should have their master degree in high-energy experimental physics or a closely related field at the time of the starting date. The ideal candidate would have experience in software development written in C++ and Python and analyzing high energy physics data. The candidate should demonstrate the ability to work in an international research environment, including good English proficiency.

Applications should include a description of previous research experience (master thesis work), an academic curriculum vitae including relevant publications, analysis notes, talks given at international conferences and workshops, and a letter of recommendation.

Your Duties and Responsibilities

The PhD student will participate in the operation of the AMS-02 Experiment on the ISS and contribute to the analyses of the AMS-02 data, especially the measurement of the fluxes of electrons and positrons or light isotopes in cosmic rays.

What We Offer

The successful candidate will be employed under a regular employment contract. The position is to be filled by 10/1/2022 and offered for a fixed term for one year. It is intended to extend the contract initial contract period by two years. The fixed-term employment is possible as it constitutes one of the fixed-term options of the Wissenschaftszeitvertragsgesetz (German Act on Fixed-term Scientific Contracts). This is a part-time position (75 % of the standard weekly hours for full-time employees). The successful candidate has the opportunity to pursue a doctoral degree in this position. The salary is based on the German public service salary scale (TV-L). The position corresponds to a pay grade of EG 13 TV-L.

About us

RWTH is a certified family-friendly University. We support our employees in maintaining a good work-life balance with a wide range of health, advising, and prevention services, for example university sports. Employees who are covered by collective bargaining agreements and civil servants have access to an extensive range of further training courses and the opportunity to purchase a job ticket.

RWTH is an equal opportunities employer. We therefore welcome and encourage applications from all suitably qualified candidates, particularly from groups that are underrepresented at the University. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of national or ethnic origin, sex, sexual orientation, gender identity, religion, disability or age. RWTH is strongly committed to encouraging women in their careers. Female applicants are given preference if they are equally suitable, competent, and professionally qualified, unless a fellow candidate is favored for a specific reason.

As RWTH is committed to equality of opportunity, we ask you not to include a photo in your application. You can find information on the personal data we collect from applicants in accordance with Articles 13 and 14 of the European Union's General Data Protection Regulation (GDPR) at <http://www.rwth-aachen.de/dsgvo-information-bewerbung>.

Contact & Application

Contact regarding the application

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