

OeAW - Discovering the future

As a central non-university institution for science and research, the **Austrian Academy of Sciences - OeAW** has the task of "**promoting science in every respect**". Founded in 1847 as a learned society, it now has over 760 members and around 1,800 employees dedicated to innovative basic research, interdisciplinary knowledge exchange and the dissemination of new insights. The OeAW initiates and maintains partnerships worldwide and represents Austria in international scientific organizations; it cooperates with numerous institutions in the scientific field in order to actively **shape the research landscape**.

Postdoc (f/m/x) in the ALICE 3 outer tracker project

Job ID: MBI009PD126

The Marietta Blau Institute for Particle Physics (MBI) of the Austrian Academy of Sciences in Vienna (OeAW), Austria is offering a position as

Postdoc (f/m/x) in the ALICE 3 outer tracker project

(Full-time employee)

(Office)

MBI performs a rich experimental particle physics research program, participating in accelerator and non accelerator-based experiments. The institute has major involvement in ALICE and CMS at CERN, the Belle II experiment at KEK and several Dark Matter discovery experiments. A research group works on R&D of particle detectors for those experiments, as well as for their applications in medical imaging. For that, it collaborates with MedAustron, an ion cancer therapy and research center. For an upgrade of the Belle II Vertex Detector and for the future FCCee, we design and develop depleted monolithic active pixel detectors and its associated readout electronics. In this context, MBI is offering a postdoc position for an initial period of three years, located in Vienna.

Your Tasks

- Design of the electronics system for the ALICE Outer Tracker readout system, including front-end ASIC chip design in 65nm technology, and back-end electronics based on the FELIX platform
- Further tasks may include verification and characterization of prototypes in lab tests and particle beam experiments
- Leadership role within the project, including supervision of Bachelor's, Master's and PhD students

Your Profile

- PhD degree in either electronics or physics with a strong background in electronics
- Previous postdoctoral positions in the domain are strongly desirable
- Solid background in experimental particle physics
- Experience in solid-state detector R&D and electronics, with emphasis on
  - FPGA programming
  - ASIC design
- Skills in Cadence ASIC design flow, PCB design, software and simulations for electronic circuits and device simulations, and knowledge of the interactions of particles with matter are desirable

Our Offer

- Interesting and diversified work embedded in a motivated team on the boundary between experimental particle physics and chip design
- Participation in the ALICE experiment as well as CERN detectorDRD3 and/or DRD7 R&D collaborations
- Attendance of international conferences and schools for advanced training
- Opportunity to work independently and develop personally

The minimum annual gross salary for this position is € 71.079,54 (full-time based, effective from January 1, 2027), in accordance with the collective agreement of the Austrian Academy of Sciences (ÖAW).

Please apply online including a cover letter in addition to (1) curriculum vitae, (2) list of publications, (3) statement of the research experience (max 2 pages), (4) certificates for full academic record, and (5) two references letters **no later than January 15, 2027**, but applications are considered until the position is filled.

APPLY NOW

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.

Contact

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