The Institute of High Energy Physics (HEPHY) of the Austrian Academy of Sciences (ÖAW), Austria’s leading non-university institution for science and research, performs a rich experimental particle physics program participating in accelerator and non-accelerator-based experiments. The institute has significant involvements in CMS at CERN, the Belle II experiment at KEK, and several Dark Matter discovery experiments. An active theory group completes the research profile of the institute. HEPHY is offering a

**POSTDOC POSITION (F*M)**

*for Detector Development in CMS and future experiments*

(full-time, 40h per week)

for a duration of three years.

HEPHY is one of the founding members of the CMS Collaboration. We are responsible for developing and producing the silicon sensors for the future Phase 2 Outer Tracker and are providing major contributions to the development of the novel hexagonal sensors in 8” technology for the High Granularity Calorimeter (HGCal).

Outside CMS, the group is a member of the CERN RD50 collaboration and leading or participating in several national and EU-funded projects investigating new sensor technologies and their applications in particle physics and medicine.

HEPHY is looking for an experienced researcher to join our silicon sensor development team. The successful applicant is expected to play a leading role in the sensor development and production for the CMS HGCal detector and contribute to developing novel sensor concepts for experiments outside CMS.

**Your tasks:**
- Development of radiation hard passive and active silicon sensors, including simulation studies, laser, source, and beam tests
- Development of novel characterization methods to study the quality and performance of silicon sensors
- Scientific and technical support for all R&D activities within the working group
- Active participation in the CMS and RD50 collaborations at CERN
- Supervision of Bachelor’s, Master’s and PhD students

**Your profile:**
- PhD in physics, electrical engineering, or an equivalent field is recommended
- Experience as a physicist or engineer in the field of experimental particle physics
- Good understanding of electrical engineering and information technologies
- Additional in-depth experience in silicon particle detectors is preferred

**We offer:**
- Exciting and diversified work embedded in a motivated team of experts
- Participation in the CMS collaboration
- A position located in Vienna with regular working meetings at CERN and other collaborating institutes with the possibility of extended research visits as well as attendance of international conferences and schools
- An annual gross salary of € 56,861 according to the salary scheme of the Austrian Science Fund (FWF)

Please send your application, including a CV, a statement of research interests, a list of publications, and two recommendation letters via e-mail to hephy-office@oeaw.ac.at, mentioning Job ID: HEPHY087PD122, no later than August 31st, 2022. The application is further possible until the position is filled. For further information, please contact Marko.Dragicevic@oeaw.ac.at.

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