The Institute of High Energy Physics (HEPHY) of the Austrian Academy of Sciences (OeAW), 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 position as

**ACADEMY SCIENTIST (F*M)**

*for Detector Development*

(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 engineer to join our silicon sensor development team. The successful applicant is expected to support 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 systems
- Development of data acquisition and power supply solutions for detector systems and test setups
- Scientific and technical support for all R&D activities within the working group
- Design and programming of FPGA based solutions and design, production and testing of ASICS
- Analysis, design, simulation, layout and verification of low noise analog integrated circuits

**Your profile:**

- PhD in physics, electrical engineering, or an equivalent field is recommended
- Experience in the field of experimental particle physics and in silicon particle detectors is preferred
- Excellent understanding of electrical engineering and information technologies
- Knowledge of application and programming of microcontrollers like Arduino and SoC platforms

**We offer:**

- Exciting and diversified work embedded in a motivated team of experts
- A position located in Vienna with the possibility of extended research visits to CERN and other collaborating institutes
- Participation as an author in the CMS collaboration
- An annual gross salary of € 54.018,- according to the collective agreement of the Austrian Academy of Sciences

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: HEPHY094AS122), **no later than August 31**, **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 (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. Individuals from underrepresented groups are particularly encouraged to apply.*