

Job ID: SMI070DOC221

The Stefan Meyer Institute for Subatomic Physics (SMI), of the Austrian Academy of Sciences (OeAW), Austria's leading non-university research and science institution, is offering a new

PHD STUDENT POSITION (F*M) *in Antimatter Physics* (part-time, 30h per week)

for a 3-year period to carry out research within a PhD thesis in studies of “**Antiproton-nuclei annihilation**”.

A PhD candidate position is available from October 2021 on the new project “Study of annihilations with slow extracted antiprotons” P34438-N funded by FWF. The candidate will be based in Vienna with occasional trips to the ASACUSA experiment at CERN, where the data taking will take place.

Slow extracted antiprotons from the ASACUSA experiment will be guided electrostatically towards an annihilation target surrounded by a detector covering almost the full solid angle. The prongs from the antiproton-nucleus interaction will be detected to study the annihilation process at low energies and to compare the experimental results with the physics model.

Your Tasks:

- You will be expected to perform simulations, undertake designwork for the beamline and the detector as well as construction and operation of the experiment.
- You will join the ASACUSA experiment at CERN and will be assigned with tasks such as shift work during antiproton beam campaigns and data analysis.

Your Profile:

- Master's degree (or equivalent) in physics (preferably subatomic physics or a related field).
- Familiar with programming, if possible C++ or other object-oriented language. Any previous experience with the following will be advantageous: antiproton physics, beam optics, (pixel) detectors for charged particles, ultra-high vacuum, cryogenics, GEANT4, Python, SIMION, LabVIEW, ROOT.

Our Offer:

- The SMI is situated near the city centre of Vienna and offers an excellent working environment.
- An open team culture welcomes the applicant.
- An annual gross salary of € 31.326,40 corresponding to the salary scheme of the Austrian Science Fund (FWF)

Please submit your application, copies of CV, master certificate, graded study records, a brief summary of previous research, and two letters of recommendation (including one from your master's thesis supervisor) to smi@oeaw.ac.at (mentioning Job ID: SMI070DOC221) **no later than August 31, 2021**.

More information can be obtained from SMI Jobs or by email: Angela.Gligorova@oeaw.ac.at

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. The OeAW lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.