



The experimental particle physics group at the Institute of Atomic and Subatomic Physics at the Vienna University of Technology together with the Institute of High Energy Physics of the Austrian Academy of Sciences is a member of the direct Dark Matter detection experiments CRESST and COSINUS.

We are looking for a **PhD student** contributing to the experimental effort of the CRESST Dark Matter experiment.

The candidate should have a Master degree in experimental particle physics and a solid background in astroparticle physics. Expertise in dark matter detection techniques, modern programming languages as well as in data analysis and statistics will be advantageous.

The successful candidate will analyse data taken with the CRESST experiment, including triggering, energy reconstruction and event selection. A main aspect of the work will be the reconstruction of the experimental raw data. Software and computational methods for data reconstruction and subsequent analysis should be developed and implemented. In addition, development of the data acquisition, studies on alternative Dark Matter models, background sources and comparison of measured and simulated data could be performed. Contributions to the operation of the CRESST experiment at the Gran Sasso underground laboratory in Italy (LNGS) are expected.

The position will be opened for a period of three years.

The Vienna University of Technology is committed to increase female employment in leading scientist positions. Qualified female applicants are encouraged to apply and will be given preference if equally qualified. Handicapped persons with appropriate qualifications are also expressly encouraged to apply.

For this position, a minimum salary of € 2.148,40.- gross per month (fourteen times a year) with an employment for 30 hrs/week is offered.

More information about the Institute of High Energy Physics of Austrian Academy of Sciences and the Vienna University of Technology may be found at <http://www.hephy.at> and at <http://ati.tuwien.ac.at>

For further Information please contact Prof. Jochen Schieck (Jochen.Schieck@tuwien.ac.at).

Please arrange for two letters of recommendation and send your application to Vienna University of Technology, Personaladministration, Fachbereich wissenschaftliches Personal, Karlsplatz 13, 1040 Vienna, Austria or by email to ildiko.haidenschuster@tuwien.ac.at

The closing date for applications is **16.8.2019**