

Participate in ESA student rocket project?

Space and Plasma Physics Department at School of Electrical Engineering aims to put together a team of students to propose an experiment for the REXUS programme for university students. If selected, the experiment will fly on the REXUS sounding rocket from Esrange in March 2019.

The experiment we have in mind is demonstrating a scientific payload to determine the parameters of the ionosphere. The payload should have a form-factor suitable for deploying it from a new small sounding rocket, developed by a company in the Netherlands. The experiment has a direct relation to the research at KTH, preparing for future experiments with the upcoming new rocket.

The team will consist of 6-10 students and combine skills and interest in physics, mechanical design and implementation, electronics, system level testing, etc. The first stage is preparation of the proposal to ESA. If selected, you will work on a detailed design in the winter 2017/18, and build the payload in spring-summer of 2018.



Oct 16, 2017	Deadline for proposals
Nov 2017	Preliminary selection
Dec 2017	Selection workshop at ESA-ESTEC, announcement of final selection
Feb 2018	Student training week and Preliminary Design Review
Nov 2018	Delivery of experiments
Mar 2018	REXUS Launch from Esrange

See www.rexusbexus.net for more details.

You are: full time KTH student under 28, interested in space!

You get

Experience of conducting a real space project from the concept to launch

Contacts with engineers at ESA, SSC, DLR and students across Europe

Guidance and supervision from researchers at Space and Plasma Physics (EES/KTH), Aeronautics and Space Technology (SCI/KTH), etc.

Academic credits (Individual project course 9/12/15 ECTS credits, BSc thesis, MSc thesis)

Interested in joining the team? Contact Nickolay Ivchenko (nickolay.ivchenko@ee.kth.se) as soon as possible, but at the latest by September 20, 2017. Please provide a short description of yourself and statement of your motivation for this project, and a transcript of your academic records. The candidates will be interviewed shortly after, after which the team will put together the proposal for the programme.

The REXUS/BEXUS programme allows students from universities and higher education colleges across Europe to carry out scientific and technological experiments on research rockets and balloons. Each year, two rockets and two balloons are launched, carrying up to 20 experiments designed and built by student teams.

The REXUS/BEXUS programme is realised under a bilateral Agency Agreement between the German Aerospace Center (DLR) and the Swedish National Space Board (SNSB). The Swedish share of the payload has been made available to students from other European countries through a collaboration with the European Space Agency (ESA).