Physics Education Research at CERN

an activity of the Teacher and Student Programmes Section of IR-ECO

Research Possibility

Teacher in Residence

Description

S'Cool LAB (cern.ch/s-cool-lab) is a new Physics Education Research facility at CERN, the European Organization for Nuclear Research in Geneva, Switzerland. S'Cool LAB offers hands-on & minds-on particle physics experiments for high school students and their teachers on-site at CERN. The activities in S'Cool LAB aim to make different aspects of CERN's research and technologies understandable through hands-on experimentation. In addition to experiment workshops on-site, the S'Cool LAB team develops hands-on activities that can be build and explored in the physics classroom, e.g. a 3D-printable ATLAS magnet model (cern.ch/s-cool-lab/classroom-activities/atlas-model). To develop new DIY hands-on activities we are currently looking for a Teacher in Residence.

Your Tasks

Search for and evaluate existing hands-on ideas in particle physics, develop new easy to build hands-on particle physics activities e.g. using our 3D printer, test and adapt these activities in the framework of student and teacher programmes at CERN, document the final activities and train other teachers how to use them, and support the S'Cool LAB team in its daily business.

Your Profile

Currently employed as a high-school teacher, available for 4-6 months as soon as possible (ideally starting Feb 2018), very good knowledge of English, very good particle physics knowledge, ability to work independently, proficient use of MS Office, experience with hands-on experiments, and experience with 3D design & printing.

Our Offer

An exciting environment and a dynamic team, 6 months of research at CERN, and CERN subsistence, complementing your salary from your home institution.

How to apply?

Please send your application to Teachers-Students@cern.ch including your CV & motivation letter, and at least one idea for a 3D-printable hands-on particle physics activity (please prepare a short proposal of max. 1 page).

For this round, the application deadline is October 31st, 2017.