LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST) IS HIRING A IM-2210 INTERN IN EXPERIMENTAL INVESTIGATIONS WITH A NOVEL ION SOURCE TECHNOLOGY FOR INTERNSHIP FROM 4 TO 6 MONTHS.

Date : 30/04/2022

Job reference : IM-2210-37267171

Type of contract : Internship
Localisation : Esch-Sur-Alzette 4362, LU
Contract duration : From 4 to 6 months
Level of studies : Master's Degree
Years of experience : < 6 months

Company description :
www.list.lu

Job description :

Are you passionate about research? So are we! Come and join us

The Luxembourg Institute of Science and Technology (LIST) is a Research and Technology Organization (RTO) active in the fields of materials, environment and IT. By transforming scientific knowledge into technologies, smart data and tools, LIST empowers citizens in their choices, public authorities in their decisions and businesses in their strategies.
https://www.list.lu/

Required profile :

You’d like to contribute as an Intern? Join our Materials Research and Technology department

Through its research into advanced materials and processes, the “Materials Research and Technology” (MRT) department, with its 200 researchers and engineers, contributes to the emergence of enabling technologies that underpin the innovation processes of local and international industry. MRT’s activities hinge on four thematic pillars: nanomaterials and nanotechnology, scientific instrumentation and process technology, structural composites, and functional polymers.

The department also includes four high-tech platforms, focusing on composites, prototyping, characterization and testing. These platforms serve both LIST research staff, and other stakeholders in Luxembourg.

How will you contribute?

We are looking for a master student to participate in the development of novel instrumentation for ion beam technology, with a particular focus on radio-frequency (RF) carpets, which are specialised devices of high interest for charged particle optics instrumentation. Such RF carpets are of particular relevance for new kinds of electron impact ion sources, but they also have prospects for other purposes as part of our various instrumentation projects.

The main mission of the student will be the assembly and experimental characterisation of an electron impact radio frequency ion source setup, incorporating such a RF carpet device, on dedicated vacuum technology test benches. Based on the outcome of the experimental investigations the student’s work may also involve elaborating further design adaptations of the RF carpet hardware/electronics and the overall ion source setup.

During the internship, the master student will have the opportunity to become familiar with ion beam equipment and charged particle optics. Furthermore, the student will learn how to characterise the experimental performance of ion beam sources as well as how to treat and present the obtained data.

Is Your profile described below? Are you our future colleague? Apply now!
You are a Master student in Physics, Engineering, Material Science or any related field.
On top of that, you are proficiency in spoken and written English. You’re the one we’re looking for!

Nice To Have Requirements
Some experience with vacuum technology systems is considered as an asset.

To apply: https://apply.multiposting.fr/jobs/4939/37267171