

The Centre de Recherche Public - Gabriel Lippmann, a fast growing public establishment for applied scientific research and technology transfer, has an opening on a permanent contract basis for its department "Science and Analysis of Materials" (SAM) that focuses in the following fields: characterization of materials, surface treatment and thin films, instrumental developments, nanotechnologies and nanomaterials, for

**a project leader in charged particle optics (m/f)**

**(ref: SAM-090312-PLCPO)**

***starting date July 2012***

Mission

The successful candidate will have to:

- Propose, setup and coordinate R&D projects related to the development of scientific instruments based on charged particle beams (ion sources and columns, electron sources and columns, mass spectrometers, detectors, ...),
- Actively participate in the execution of the R&D projects,
- Make contacts and interact with instrument manufacturers in view of initiating new collaborations, sustaining existing ones and valorising the developments performed within the research projects,
- Make contacts and interact with academic partners and research labs in view of initiating new collaborations and sustaining existing ones,
- Communicate on the generated scientific results (conference, scientific publications, symposium,...),
- Propose and write patent applications,
- Write scientific and technical reports and documents.

Profile

- PhD in Physics with a special emphasis on charged particle optics
- Minimum of 8 years of experience in charged particle optics (simulations and experimental) and instrumental development acquired during PhD thesis and after in the frame of employments in R&D
- An previous experience in a project leader position would be highly appreciated
- Experience with SIMION and LORENTZ charged particle optics simulation software together with knowledge in data processing and software programming is mandatory
- Experience in designing mass spectrometers and/or ion sources
- Strong experimental skills
- Past experience in collaborating with instrument manufacturers will be an important advantage
- Knowledge in the field of intellectual property management (patent writing, valorisation of patents,...)
- Aptitude for grant writing, project management and team leadership in an interdisciplinary research group
- Fluency in English (scientific exchanges) and good knowledge of French (administrative language) is a must
- Excellent communication, organisational and interpersonal skills with a mandatory team-spirit

Candidates who are interested in the above positions should send their application (with the above reference) including CV, motivation letter and names of 2-3 referees and the reference either by e-mail to [recrutement@lippmann.lu](mailto:recrutement@lippmann.lu) (format: .doc or .pdf) or by mail to: