

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 Physicist specialized in charged particle beams instrumentation (m/f)**

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

***starting date: July 2012***

Mission

The successful candidate will have to :

- Participate in 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,...),
- Interact with instrument manufacturers in the framework of joint R&D projects and in view of valorising the developments performed within the research projects,
- Interact with academic partners in the framework of joint R&D projects,
- Communicate on the generated scientific results (conference, scientific publications, symposium...),
- Write scientific and technical reports and documents.

Profile

- PhD in Physics
- Minimum of 5 years of experience in charged particle beams experiments and instrumental development acquired during PhD thesis and after in the frame of employments in R&D
- Hands-on experience in Transmission Electron Microscopy and/or Secondary Ion Mass Spectrometry is mandatory
- Practical and theoretical knowledge of mass spectrometers, ion/electron sources and detectors
- Good knowledge of particle-matter interactions in general and sputtering and ionization mechanisms in particular
- Strong experimental skills
- Fluency in English (scientific exchanges) is a must, knowledge of French (administrative language) will be an asset
- 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:

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