



Permanent Position for a Researcher in Advanced Transmission Electron Microscopy

The Research Institute, INAC –“Nanoscience and Cryogeny“, at CEA-Grenoble, France, has a permanent position available for a scientist with a strong background in the field of advanced transmission electron microscopy. Within this institute, the position will be based in the laboratory SP2M -*Service de physique des matériaux et microstructures* - where a hundred scientists are engaged in fundamental experimental or theoretical research on nano-scale semiconductor and magnetic materials. Due to the variety of research and diverse backgrounds of the researchers, the SP2M can offer a range of productive collaborations and an excellent environment for a creative career.

The electron microscopy group ([Lemma](#)) of SP2M is also part of the nanocharacterisation platform created in 2006 at Minatec, a centre for nanoscience and nanotechnology research. This centre brings together a large range of facilities such as 6 TEMs, 5 SEMs and 2 dual-beam FIBs as well as a dedicated lab for specimen preparation. Our activity is mainly dedicated to nanoscale research (physics and chemistry of materials down to atomic scale) using advanced instrumentation, such as a FEI-Titan microscope with a probe Cs-corrector allowing HRSTEM and EELS spectroscopy. In addition, this microscope is equipped with a Lorentz lens and biprism for electron holography. In 2010 a new state-of-the-art FEI-Titan 80-300 kV Pico with double-aberration correction (TEM and STEM), a monochromator and a high brightness gun will be installed.

This instrument will give access to a large range of new techniques (Ultra HR in STEM and TEM, high resolution EELS, electron holography, Lorentz, NBED, tomography ...). The candidate will be involved in research projects to develop quantitative electron microscopy methodologies to help the understanding of the properties of nanomaterials for a large range of applications (optics, photonics, electronic, spintronics, new energies...) preferably for the extraction of chemical information from these materials. He/she will lead an innovative high-level research using advanced techniques of electron microscopy. The successful candidate will work closely with the INAC laboratories and with our partners on the electron microscopy platform (Cea-Liten and Cea-Leti). We will also strongly require the candidate to build research projects and collaborations within CEA, in externally based French laboratories and beyond

We offer a permanent position as a CEA researcher. The candidate will have a PhD and have a strong background and expertise in transmission electron microscopy; experience on advanced microscopy as Cs-correction or use of monochromator will be greatly appreciated. The candidate should have more than 2 years experience after his/her PhD. The candidate must be a dynamic, self starter and motivated to generate collaborations and to develop new research projects.

Grenoble and Minatec, situated in the French Alps offer a fantastic quality of life combined with excellent research facilities and competitive rates of salary.

Applications will be considered until ~~1st of June 2010~~ Extended to 31st of August 2010. To apply (by e-mail or post-mail) provide an application letter (with research interests), a full CV with a publication list and the name of at least three qualified referees able to provide a recommendation.

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