Permanent Staff-Scientist Position
in Transmission Electron Microscopy

The IRIG, "Interdisciplinary Research Institute of Grenoble" (https://www.cea.fr/drf/Irig), is a large department (~ 1000 people) within the direction of fundamental research of the French Alternative Energies and Atomic Energy Commission (CEA). Its main objective is basic research in the fields of physics, chemistry, biology, and materials sciences. It brings together 10 laboratories in Grenoble working in close networks with partners from the academic world (in particular the University of Grenoble Alpes and CNRS) and with industry.

We are looking for an expert in transmission electron microscopy (TEM) in materials science. The successful candidate will have to develop independent research projects related to advanced developments in the technique (e.g. in the fields of 4D-STEM, EELS or EDX spectroscopy etc.). It is also expected that his research will contribute to supporting, through internal or external collaborations, research in materials science done at the Institute, particularly in the field of semiconducting materials for microelectronics and photonics, and materials for energy applications.

Your responsibilities will include:

- being one of the lead electron microscopists of the Institute, helping to shape and develop our electron microscopy activity at IRIG,
- pursue independent research projects related to (S)TEM, including through the acquisition of third-party funding and the writing of scientific publications,
- doing collaborative work inside and outside of the institute, particularly in the field of materials for microelectronics, photonics and/or new energies.

Your expected qualifications:

- a PhD in physics, materials science or related fields, followed by at least a first research experience
- a clear track record of TEM and STEM-based research, demonstrated by excellent publications
- experience in interdisciplinary and collaborative research projects
- fluent written and spoken English (knowledge of French would be a plus but not required)
- willingness to cooperate with other groups, with good communication and information behaviour,
- initiative and commitment to help develop the activities of team of the microscopists

What we offer:

- Exceptional equipment and infrastructure. Our institute is part of the CEA-Grenoble nanocaracterisation platform (PFNC), with brings together a wide range of state-of-the-art instruments such as 5 TEMs (including 3 corrected ThermoFisher Titan and JEOL (S)TEMs with direct electron detectors), 5 dual-beams FIBs, 5 SEMs, and many other analytical tools. This facility, unique in France in the field of materials science, is located in the stimulating "Polygone Scientifique" (https://en.wikipedia.org/wiki/Polygone_Scientifique), just near the city centre of Grenoble
- The opportunity to work on national and international projects with universities, research institutes and industrial companies

- A flexible working environment, with a lot of freedom to define and organize your activities
- Finally, Grenoble offers a fantastic quality of life, in the heart of the French Alps, surrounded by magnificent regional and national parks

Questions regarding this position can be addressed to Dr. Thierry Deutsch (thierry.deutsch@cea.fr), head of the MEM laboratory (Laboratory for Modelling and Exploration of Materials, https://www.mem-lab.fr/en), or to Dr. Hanako Okuno (hanako.okuno@cea.fr)

Applications, including a cover letter (with a brief summary of previous research activities), your CV and two references or reference letters, are expected by email. **Application Deadline:** 25/08/2025