Dual beam FIB/SEM Expert – Materials Science

Description
TAG Heuer Institute - Branch of LVMH Swiss Manufactures SA is recruiting an expert in Dual Beam FIB/SEM microscopy to join the Microscopy Lab team. His/her role will be to provide high-level technical expertise and creativity in preparing and observing a wide range of samples issued from innovative concepts, involving advanced materials (crystalline and amorphous metals, ceramics, polymers, etc.) and new technologies (carbon composites, 2D/3D nano-structures, etc.).

The successful candidate will be in charge of understanding the imaging and analysis needs of the R&D Institute scientists, and to translate it into successful sample preparation and observation, to help researchers shortening their learning cycle in both pre-industrial processes and longer term materials and concepts development.

The Electron and Ion Microscopy expert will join a Microscopy Lab equipped with a Thermo Scientific™ Helios™ G4 UC DualBeam™ microscope that allows both conventional and in-situ TEM sample preparation, EDS, EBSD, plus a wide range of in-chamber and in-column detectors for specific SEM and STEM imaging techniques. The Sample Preparation Lab will further be equipped with conventional TEM sample preparation techniques, among which low-kV ion milling (PIPS), electro-polishing, and ultramicrotome with possible evolution to cryo, if needed. A Thermo Scientific™ Themis Z 30-300kV Double Corrected and monochromated TEM is also part of the lab toolset.

Requirements

- MS degree or higher in a scientific discipline (preferably Materials Science), or equivalent experience
- 5+ years hands-on experience in operating, tuning and using DualBeam™ FIB/SEM systems and their imaging and analysis options. Extended knowledge about operating, tuning and using Cs corrected TEM/STEM would be a plus.
- Demonstrate ability to quickly implement a wide range of complex sample preparation techniques by developing on-the-fly methods and protocols in a highly dynamic environment (timing constraints), including cryo experiments and bio-compatible applications.
- Comfort with industrial, corporate and highly confidential environment
- Excellent verbal and written communication skills in both French and English
- Comfortable with state-of-the-art statistical methods and analytical software from various electron/ion microscopy related suppliers

The workplace will be at TAG Heuer’s headquarters in La Chaux-de-Fonds, Switzerland. Travelling may be required occasionally.

Contact

For further information about this position, please contact Dominique Delille:
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