

Metrologist in BRDF measurement - Conservatoire National des Arts et Métiers

Contract: Temporary; 12 months duration with possible prolongation of 12 additional months. Earliest start date is May 2014.

Salary range: $\geq 25,000$ and $< 35,000$ € annual gross

Workplace: LNE, TRAPPES - FRANCE

Skill area: Photonics - Applied optics - Engineering

Application deadline: 4/16/2014

CNAM (Conservatoire National des Arts et Métiers) is a public research and teaching institution. The applicant will work in one of its laboratories, the LNE-CNAM, which is a joint research laboratory between CNAM and the LNE (Laboratoire National de Métrologie et d'Essais). The LNE-CNAM is responsible for research and traceability for several units in the French metrological chain. The researcher will work in the Photonic department of the LNE - CNAM, which is in charge of the realisation of the national radiometric and photometric standards at the highest level of accuracy.

Mission: The job will be performed in the **metrology of appearance** team of the Photonic department of LNE-CNAM. The Applicant will work on the gonireflectometer of the laboratory. This high tech facility performs absolute measurements of the Bidirectionnal Reflectance Distribution Function (BRDF) of surfaces. The device consists of a monochromatic illumination, a sample holder mounted on a 6 axis robot arm, and a high sensitivity detection based on a silicon photodiode and an amplification system. His/Her activity will be to run the facility, to maintain and improve the alignment procedures and piloting programs, and to study the budget of uncertainty of the measurement. The applicant will join a young and dynamic team. Its action will be a part of the European project xDReflect (<http://www.xdreflect.eu/>) where he/she will collaborate with several foreign partners.

Candidates profile: We seek an engineer with at least 2 years of experience, or a doctor in physics or applied optics. Applicant must have a background in the field of optical measurements (radiometry or photometry), in optronic or in robotic. A good experience in the following domains will be appreciated: Metrology, labview, robotic, optical design, low signals amplification or data processing.

Contact:

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