

# NFFA-Europe: Your Gateway to Cutting-Edge Facilities for Graphene Research

Noor Nawaz

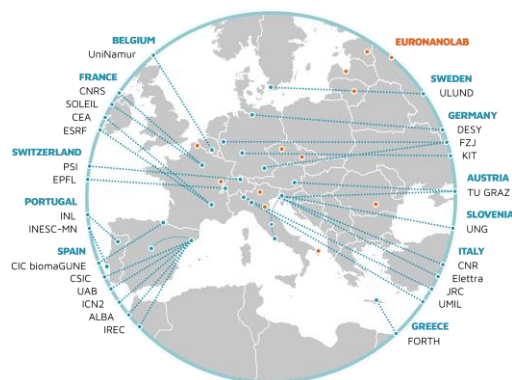
NFFA/ESRF, 71 avenue des Martyrs, 38000, Grenoble, France

[nnawaz@esrf.fr](mailto:nnawaz@esrf.fr)

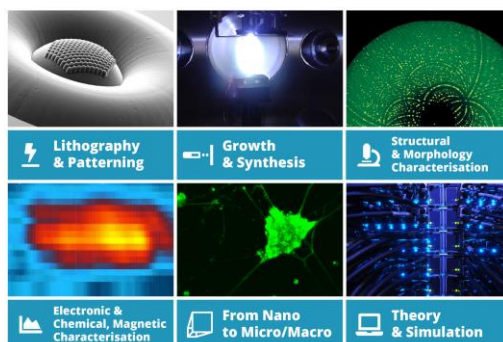
## Abstract

NFFA-Europe is a distributed research infrastructure serving the community of nanoscience and nanotechnology. NFFA-Europe offers free and open access to a unique, integrated platform for nanoscience research, supporting projects from initial synthesis to functional characterization and theoretical modeling. A pan-European infrastructure of 31 participants providing access, with a core of 14 nanofoundries co-located with Large Scale Facilities. More than 180 techniques are currently available to our users in the field of nanoscience and nano-microtechnologies. By combining state-of-the-art facilities across multiple European sites, NFFA enables academia and industry to carry out complex, multi-technique investigations that would be difficult to achieve within a single laboratory. Techniques such as electron beam lithography for device fabrication and scanning probe microscopy for nanoscale characterization are available alongside synchrotron-based spectroscopy and in-operando measurements. For the graphene and 2D materials community, this means access not only to fabrication and imaging tools, but also to correlative analysis and multidisciplinary support that can accelerate materials development and integration into functional systems.

## Figures



- **Figure 1:** A pan-European infrastructure of 31 participants providing access to more than 600 state-of-the-art instruments across Europe



- **Figure 2:** NFFA Offer Installations