

Mobility programme call - April 2019

Techniques and Laboratories offered for the Short term Visits

(Sorted according to the list of NFFA-Europe facilities/techniques for the Transnational Access programme)

For all institutions, there can be some time-constraints

→ Candidates must agree on specific dates with the contact-person, as some equipment may be punctually not available

LITHOGRAPHY AND PATTERNING (INSTALLATION 1)

EBL: Electron Beam Lithography

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 26th and end of August.

→ **Institution: Lund Nano Lab**, Place: Lund University, Sweden. Contact person: Ivan Maximov, ivan.maximov@ftf.lth.se

UVL: Optical UV lithography (contact, proximity and projection-Stepper)

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

UVL: Ultra-Violet Lithography (Clean room)

→ **Institution: PRUAB-ICMAB-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: [Laura Cabana, Icabana@icmab.es](mailto:Laura.Cabana@icmab.es)

EUV-IL: Extreme UV Interference Lithography (Ellipsometry and Scanning Electron Microscopy as auxiliary methods to EUV-L)

→ **Institution: XIL-II Beamline @ Swiss Light Source Synchrotron of PSI**, Place: Zurich, Switzerland. Contact person: Dimitrios Kazakis, dimitrios.kazakis@psi.ch. Time-constraints: It will be arranged between the lab and the candidate

NIL: Nano Imprint Lithography

→ **Institution: Lund Nano Lab**, Place: Lund University, Sweden. Contact person: Ivan Maximov, ivan.maximov@ftf.lth.se

DXRL Deep X-Ray Lithography

→ **Institution: TUG-Elettra**, Place: Trieste, Italy. Contact person: Heinz Amenitsch, heinz.amenitsch@elettra.eu. Time-constraints: not possible August/September.

AFML: Lithography based on Atomic Force Microscopy

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

RIE: Reactive Ion Etching

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

Chip Packaging

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

Laser Surface and in-volume Patterning

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Ion Implantation

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

GROWTH & SYNTHESIS (INSTALLATION 2):

MBE Molecular Beam Epitaxy

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana](mailto:Laura_Cabana), lcabana@icmab.es

PLD Pulsed Laser Deposition

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana](mailto:Laura_Cabana), lcabana@icmab.es

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

→ **Institution: CNR-IOM**, Place, Trieste, Italy. Contact person: Pasquale Orgiani, orgiani@iom.cnr.it. Time-constraints: The visit should be arranged in advance and it is not possible August.

ALD Atomic Layer Deposition

→ **Institution: Lund Nano Lab**, Place: Lund University, Sweden. Contact person: Ivan Maximov, ivan.maximov@ftf.lth.se

Soft Matter Preparation

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Thermal Processes (Including chemical vapour deposition, CVD processes)

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not available between July 15th and end of August.

THEORY & SIMULATION (INSTALLATION 3):

Atoms and molecules in motion

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

Excited-state properties

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

Magnetic properties

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

Structural and ground-state electronic properties

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August

Transport properties

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

Multiscale modelling of materials under extreme irradiation

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

STRUCTURAL & MORPHOLOGY CHARACTERIZATION (INSTALLATION 4)

Confocal Microscopy

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not possible August.

AFM: Atomic Force Microscopy

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana, lcabana@icmab.es](mailto:Laura_Cabana_lcabana@icmab.es)

SEM: Scanning Electron Microscopy

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana, lcabana@icmab.es](mailto:Laura_Cabana_lcabana@icmab.es)

→ **Institution: Lund Nano Lab**, Place: Lund University, Sweden. Contact person: Ivan Maximov, ivan.maximov@ftf.lth.se

TEM: Transmission Electron Microscopy

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana, lcabana@icmab.es](mailto:Laura_Cabana_lcabana@icmab.es)

XRD: X-Ray Diffraction

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana, lcabana@icmab.es](mailto:Laura_Cabana_lcabana@icmab.es)

→ **Institution: CNR-IOM**, Place: Trieste, Italy, Contact person: Pasquale Orgiani, orgiani@iom.cnr.it. Time-constraints: The visit should be arranged in advance and it is Not possible August.

SAXS: Small-Angle X-ray Scattering

→ **Institution: TUG-Elettra**, Place: Trieste-Italy. Contact person: Heinz Amenitsch, heinz.amenitsch@elettra.eu. Time-constraints: Not possible August, September.

Fluorescence Microscopy

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Laser Scanning Confocal Microscopy

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

ELECTRONIC & CHEMICAL CHARACTERIZATION (INSTALLATION 5)

XPS X-ray Photoelectron Spectroscopy

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August

Pump-Probe

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Raman

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana](mailto:Laura_Cabana), lcabana@icmab.es

IPES: Inverse Photo-Emission Spectroscopy

→ **Institution: CNR-IOM**, Place: Trieste, Italy. Contact person: Maddalena Pedio, pedio@iom.cnr.it. Time-constraints: Not possible August

ARPES: Angle-Resolved Photo-Electron Spectroscopy

→ **Institution: CNR-IOM**, Place: Trieste, Italy. Contact person: Ivana Vobornik, vobornik@iom.cnr.it

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

Optical Spectroscopy

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

FTIR Fourier Transform Infra Red

→ **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August.

XAS: X-ray Absorption Spectroscopy

→ **Institution: CNR-IOM**, Place: Trieste, Italy. Contact person: Ivana Vobornik, vobornik@iom.cnr.it

MAGNETIC, OPTICAL & ELECTRIC CHARACTERIZATION (INSTALLATION 6)

SQUID

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana,lcabana@icmab.es](mailto:Laura_Cabana,lcabana@icmab.es)

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Magnetometry

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana,lcabana@icmab.es](mailto:Laura_Cabana,lcabana@icmab.es)

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis, stratak@iesl.forth.gr

Magneto-Transport

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana,lcabana@icmab.es](mailto:Laura_Cabana,lcabana@icmab.es)

Magnetic/ferroelectric/dielectric characterization

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: [Laura Cabana,lcabana@icmab.es](mailto:Laura_Cabana,lcabana@icmab.es)

→ **Institution: Forth**, Place: Forth, Greece. Contact person: Emmanuel Stratakis,
stratak@iesl.forth.gr