

Mobility programme call - April 2018

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.es](mailto:ivan.maximov@ftf.lth.se)

FIB: Focused Ion Beam

→ **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.

UVL: Optical UV lithography (contact and proximity)

→ **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.

UVL: Ultra-Violet Lithography (Clean room)

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

EUV-IL: Extreme UV Interference Lithography

→ **Institution: XIL-II Beamline @ Swiss Light Source Synchrotron of PSI**, Place: Zurich, Switzerland. Contact person: Dimitrios Kazakis, dimitrios.kazakis@psi.ch

NIL: Nano Imprint 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

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 possible 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 possible 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 possible August.

Electrochemical Deposition

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

Optical Lithography with I & G-line stepper

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

GROWTH & SYNTHESIS (INSTALLATION 2):

CVD Chemical Vapour Deposition

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

MBE Molecular Beam Epitaxy

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: Jorge Perez, jperez@icmab.es

PLD Pulsed Laser Deposition

→ **Institution: PRUAB-ICMAB-CSIC**, Contact person: Jorge Perez, jperez@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

ALD Atomic Layer Deposition

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

→ **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

→ **Institution: PRUAB-CNM-CSIC**, Place: Bellaterra-Barcelona-Spain. Contact person: Francesc Pérez-Murano, Francesc.Perez@imb-cnm.csic.es. Time-constraints: Not possible 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: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August
- **Institution: PRUAB-ICMAB-CSIC**, Contact person: Jorge Perez, jperez@icmab.es

SEM: Scanning Electron 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.
- **Institution: ICN2**, Place: Bellaterra-Barcelona-Spain. Contact person: Jose Santiso, jsantiso@cin2.es. Time-constraints: Not possible August
- **Institution: PRUAB-ICMAB-CSIC**, Contact person: Jorge Perez, jperez@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: Jorge Perez, jperez@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: Jorge Perez, jperez@icmab.es
- **Institution: CNR-IOM**, Place: Trieste, Italy, Contact person: Pasquale Orgiani, orgiani@iom.cnr.it.

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: Jorge Perez, jperez@icmab.es

IPES: Inverse Photo-Emission Spectroscopy

→ **Institution: CNR-IOM**, Place: Trieste, Italy. Contact person: Maddalena Pedio, pedio@iom.cnr.it

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: Jorge Perez,
jperez@icmab.es

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

Magnetometry

→ **Institution:** PRUAB-ICMAB-CSIC, Contact person: Jorge Perez,
jperez@icmab.es

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

Magneto-Transport

→ **Institution:** PRUAB-ICMAB-CSIC, Contact person: Jorge Perez,
jperez@icmab.es

Magnetic/ferroelectric/dielectric characterization

→ **Institution:** PRUAB-ICMAB-CSIC, Contact person: Jorge Perez,
jperez@icmab.es

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