

SCHOOL ORGANISERS

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LECTURERS

Heinz Amenitsch	TUG
Esther Barrena	ICMAB
Xavier Cartoixà	UAB
Mariona Coll	ICMAB
Christian David	PSI
Yasin Ekinçi	PSI
Salvador Ferrer	ALBA
Aitor Lopeandía	UAB
Andrea Marini	CNR
Aitor Mugarza	ICN2
Pablo Ordejon	ICN2
Francesc Pérez-Murano	CNM
Florencio Sánchez	ICMAB

VENUE

**UNIVERSITY AUTONOMOUS OF BARCELONA
ENGINEERING SCHOOL**

08193-Bellaterra, Barcelona, SPAIN

www.uab.es

REGISTRATION FEE

Includes: coffee breaks and lunches.

EARLY REGISTRATION

100 € (until 15th June 2016)

LATE REGISTRATION

150 € (from 16th June 2016)

STUDENT TRAVEL SUPPORT

Students can apply for free registration and travel support **before the 15th of June 2016**.

REGISTER

www.nffa.eu/summer-school

IMPORTANT

Sending a poster proposal and a letter from the students' supervisor is mandatory for all applicants.

DEADLINE FOR REGISTRATION

30th June 2016

1st

NFFA-Europe SUMMER SCHOOL

Nanoscience Foundries
and Fine Analysis (NFFA),
available instruments
and techniques

Barcelona - Spain
July 18-22, 2016



WWW.NFFA.EU

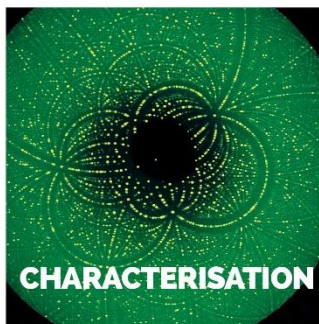
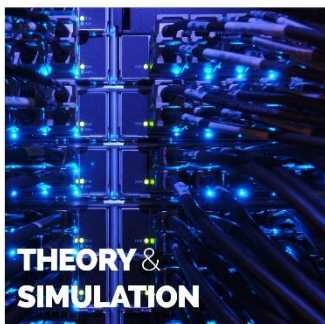
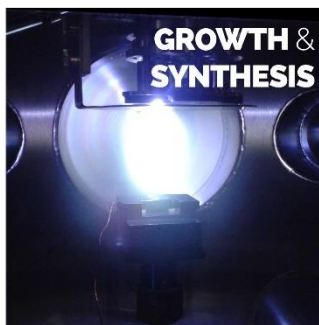
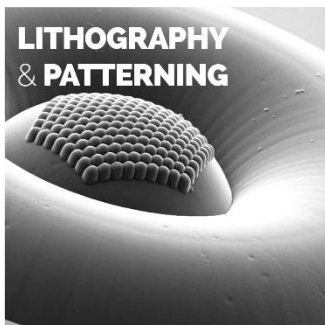


NFFA-Europe has received funding from the European Union's H2020 framework programme for research and innovation under grant agreement n. 654360

University Autonomous of Barcelona
ENGINEERING SCHOOL

nffa.eu

TOPICS



The 5-day school will train participants in the instruments and techniques available for trans-national access at the NFFA-Europe consortium through 4 thematic groups of lectures given by top NFFA-researchers and specialists from across Europe.

This first school will be devoted to **Synchrotron Radiation**, teaching and demonstrating the benefits and synergies between synchrotron techniques and nanotechnology.

SCHOOL STRUCTURE

The NFFA-Europe school is open to graduate students, post-docs and young researchers, technicians, engineers, scientist from academic and industrial communities.

The School is organised as:

LECTURES

Each thematic area will be covered by 3-4 lectures.

VISITS

Visits will be made to see first-hand all the relevant infrastructures at the UAB Campus available for NFFA-trans-national access (lab-tours): ALBA-Synchrotron, ICMAB-CSIC (Materials Science Centre), IMB-CNM-CSIC (Microelectronics Centre), UAB (University), ICN2 (Nanotechnology Centre).

POSTER SESSIONS

Participants will have the opportunity to widely discuss with lecturers and colleagues through two scheduled poster sessions (including a best poster award).

The detailed programme is available at www.nffa.eu/summer-school

AGENDA

DAY 1

18th JULY

Focus on Theory and Simulation

- Density Functional Theory
- Post-DFT techniques

DAY 2

19th JULY

Focus on Lithography

- Nanolithography: Concepts and Methods
- Nanolithography with X-rays
- Nanostructures for use at Synchrotrons

DAY 3

20th JULY

Focus on Growth & Synthesis

- Chemical Growth Techniques
- Pulsed Laser Deposition
- Molecular Film Growth by Real-time X-ray scattering

DAY 4

21st JULY

Focus on Characterisation

- Applications of Synchrotron Techniques in Nanoscience
- In-situ Characterisation of Nanostructures by Combining STM with X-rays
- In Operando and High Throughput Methods for Bio and Nanotechnology

DAY 5

22nd JULY

- NFFA opportunities for young researchers
- Closing and Poster Awards