

2nd International Summer School on Micro and Nano-fabrication tools for innovating applied electronics and fundamental research

# MINATO Summer School 2025

Register now !

Do you wish to develop your knowledge in Micro and Nano-fabrication tools or Nanotechnology, while traveling the world, discovering french "art de vivre", and meeting new people from different cultural backgrounds ?

In the south of France, you will study within a high-ranking French engineering institute, INSA Toulouse, and have the chance to fabricate your own device in **clean room** and research facilities.

Micro and Nano technologies are nowadays "Key Enabling Technologies" for innovating applied science and fundamental research in numerous experimental fields.

Get micro-nano fabrication skills thanks to MINATO, with a unique hands-on interdisciplinary teaching method approach mainly based on Lab Work (> 50% of time) in a clean room.



Dates :

June 23, to July 4, 2025

or

June 23, to July 18, 2025.

Earn **ECTS** credits:

5 for 2 weeks

10 for 4 weeks.

Toulouse, France

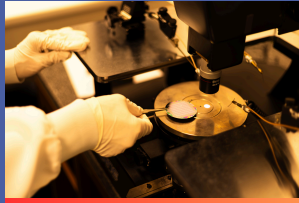


<https://www.aime-toulouse.fr/summer-school-minato/>



# Design your own summer school program!

Pick one track for 2 weeks summer school (5 ECTS credits)  
two tracks for 4 weeks summer school (10 ECTS credits).



**TRACK 1**  
**Microelectronics**  
MOS (metal-oxide-semiconductor) technology



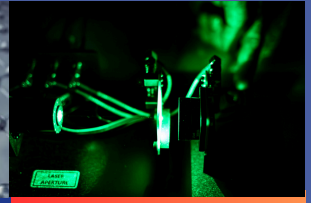
**TRACK 2**  
**Energy**  
Integrated energy harvesting and storage technologies



**TRACK 3**  
**Nano chemistry**  
Chemical sensors based on nano-objects



**TRACK 4**  
**Nano physics**  
Remarkable properties of devices integrating 2D materials



**TRACK 5**  
**Quantum technology**  
Ultrasensitive Sensors and quantum cryptography  
Only for 4 weeks program.

and a additional track : French Culture and Language.



Activities: guided tour in world heritage sites by UNESCO (Carcassonne city, Canal du midi...), visit of the Pic du Midi and its astronomical observatory; visit of **AIRBUS** facilities, CNRS Laboratories ; Typical French food ; 14th of July celebration...

**Who can apply:** All Science and Engineering students with undergraduate or graduate level ( $\geq$  bachelor of science in mathematics, physics, chemistry, materials, electronics) including **PhD students**. Preliminary entry-level on-line courses refreshing the required topics provided.

**Fees:** # full cost - 3250 € for 2 weeks or 4950 € for 4 weeks program, (accommodation, lunch, social events, and visits included).

# discount - 2350 € for 2 weeks or 3300 € for 4 weeks program, for INSA Toulouse partner universities.

**Application deadline: 11th of april 2025**

# 2 weeks program : June 23, 2025 to July 4, 2025

# 4 weeks program : June 23, 2024 to July 18, 2025

Educational  
Manager: Prof.  
Marc RESPAUD



More information: Detailed program, practical information and the registration link : <https://www.aime-toulouse.fr/summer-school-minato/>

**nano X**  
NANOSCALE SCIENCE AND ENGINEERING



**INSA**  
TOULOUSE

