

ABOUT UNIVERSITÉ PARIS-SUD

With more than **40 years of excellence** & dynamism in terms of **scientific environment**, numerous quality research partners such as CNRS, INRA, INRIA, INSERM, around **30 open technological platforms**, a long established tradition of international relations and connections with foreign universities and research centres, through its laboratories, research teams and faculty, **Université Paris-Sud** is a leader in terms of student and doctoral student integration. Its high level of research is evidenced by numerous awards and its top position in international rankings.



TOP 50
among the 500 best
universities in
the world*



2 Nobel prizes
in Physics
4 Fields Medals



78
internationally
renowned research
laboratories



31,400 students
from **144**
different countries



4,300
academics
& teachers



300
Erasmus bilateral
agreements with
142 partners in 25
countries



160
joint-supervised
theses



5,000
international
students
(25 % of our Master's
students)

*Shanghai Ranking 2017

ADMISSION CRITERIA & APPLICATION PROCEDURE

ELIGIBILITY

The NANO³ summer school is open to students at MSc1 level, with an excellent academic background in General Physics, in Optics and Electromagnetism or Physics of Materials.

Students should have a good English level (Minimum language requirements: B2 level in English) & a high interest in physics, nanotechs & research community. *The number of places available is limited to guarantee the quality of supervision.*

HOW TO APPLY

Applications must be submitted through the Campus France website:

<http://www.chine.campusfrance.org/fr>

Application deadline: March 18th 2018

You will be informed about admission **before 2018 April the 1st**.

SCHOLARSHIPS

A limited number of grants will be attributed by the French Embassy to support exceptional applications.

Contact us at: nano.3@u-psud.fr

Our website: www.nano3.u-psud.fr/

NANO³ SUMMER SCHOOL

Participate in the **1ST SINO-FRENCH SUMMER SCHOOL** – NANO³ * & discover the outstanding research developed in the worldwide leading research **centre of Paris-Saclay**, together with the fabulous **touristic environment of Paris**, the city of lights.

- **Lectures in English**
- **Practical courses**
- **Research training projects**
- **Industrial seminars**
- **French language courses and cultural activities**
- **Social events...**

4 weeks

Call for applications: open until March 18, 2018

ABOUT THE NANO3 SUMMER SCHOOL

The NANO³ summer school is a **4-week intensive course** in **nanophotonics** and **nanoelectronics and nano-magnetism**, an outstanding field of research developed at Paris-Saclay University, the biggest university cluster in France.

The students will experience outstanding laboratory training and projects together with exciting cultural activities in and around Paris.

The aim of the NANO3 school is to provide Chinese students with precise information on the **French research system**. The methodology used is diverse: theoretical courses, lab trainings, industrial seminars, research projects, as well as visits of laboratories.

Lectures and experiments will take place at Paris-Saclay University, a privileged site with several companies based on the campus, which will participate in the school through seminars (eg: III / V- laboratory, THALES-TRT, SILTENE). The training will be delivered by senior scientists of the **Center for Nanosciences and Nanotechnologies** (C2N).

The **C2N** is an internationally recognized laboratory in the fields of Nanosciences and Nanotechnologies, including nanophotonics and nanoelectronics. The C2N micro-nano-technology facility is completed by a rich set of nano-scale growth and characterization materials, and various nanophotonic experiment benches (characterization of nano-objects, photonic circuits, etc.) in the field of micro-nano-sensors, and in electronics (magnetic and electrical behaviour of nanostructures and submicron components).

SCIENTIFIC LECTURES

PHOTONICS, PLASMONICS, AND NANOPHOTONICS

- Photonics and optoelectronics
- Plasmonics and metamaterials
- Nonlinear photonics
- THz photonics and optoelectronics

NANOELECTRONICS AND NANOMAGNETISM

- Introduction to nanoelectronics
- Magnetic thin films and spintronics
- Mesoscopic physics

The team of professors is composed of professors from **Paris-Saclay University** and **CNRS** (National Research Centre) researchers. These professors regularly teach in the **Master 2 Nanosciences** of Paris-Saclay University and in international masters.

Besides theoretical courses, the scientific training consists of:

- an introductory session of the French research system;
- practical trainings in research laboratories;
- visits of 3 major laboratories of the physics department, including a visit of C2N, LPS (Laboratory of Solid Physics) and ISMO (Institute of Molecular Sciences of Orsay);
- industrial presentations and seminars;
- research projects and immersion in laboratories
- a mini-conference ("workshop") at the end of the school to assess the results of the research projects;

Finally, the NANO³ school will include a training specially dedicated to the preparation of PhD applications in France, in particular through the China Scholarship Council and the French Doctoral Schools.

CULTURAL ACTIVITIES

The school includes elements of **French culture** with language courses.

Participants will get a basic introduction to French language (16h) in order to promote cultural exchanges. They will face professional language course professors and will practice through real-life situation in the city.

We hope to provide our students with a unique experience in the region of Paris and a chance to meet other students. In order to meet that requirement, the school offers a wide range of social activities including:

- Visits of Paris (monuments, museums, team building activities and shopping)
- 14th of July Fireworks
- Day trips to historical and cultural sites (Versailles, Vaux le Vicomte)...
- Day at Disneyland Paris



SOCIAL PROGRAM

Several **networking events** will be organized with researchers and PhD students: buffets and cocktails, meeting with members of the association « Union des chercheurs et des étudiants chinois à Paris-Sud », meeting with current PhD students financed by the CSC programme and other PhD students concerned by the field of study.