

# Technical Training in Nanofabrication

Technical training in Nanofabrication is run in a state-of-the-art main facility 1000 Cleanroom, one of the University's Cleanroom facilities going from class 10 to 10000. These include a large silicon and metamaterial fabrication and analysis centre within one of the largest and best equipped academic Cleanrooms in Europe.



## **First course**

### **Fabrication of nanoscale contacts on devices**

Learn of the techniques involved in the fabrication of nanoscale contacts for LED or PV devices.

- Optical and electron-beam lithography
- Imaging using scanning electron microscopy
- Electrical characterization of the end product

## **Second course**

### **Fabrication of Organic Photovoltaic Devices**

Introduction to information and techniques needed to process an organic solar cell.

- Introduction to the physics of organic semiconductors
- Cleanroom fabrication of an OPV
- Electrical characterization of the solar cell (IV curves, External Quantum Efficiency, reflectivity/scattering measurements)

**Training dates throughout the year – Attendance Certificate provided**

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**[www.southampton.ac.uk/nano](http://www.southampton.ac.uk/nano)**