



UCL

Undergraduate Summer School in Quantum Technologies

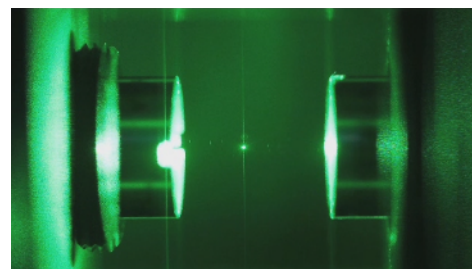
4 - 8 September, 2017

*“Can quantum computers really solve impossible problems?”
“Is quantum communication really unhackable?”*

This summer school, aimed at undergraduates in engineering and computer science, will introduce the key ideas behind quantum technologies including hands on experience in developing them.

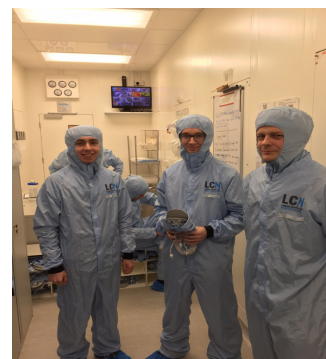
Lectures from leading experts on:

- ★ Basic concepts in quantum mechanics
- ★ Quantum computing and qubits
- ★ Quantum algorithms and quantum computer architectures
- ★ Quantum cryptography and quantum communication
- ★ Key technology platforms for quantum computers



Hands on experiments, including:

- ★ Programming a small-scale quantum processor
- ★ Quantum device nanofabrication in a cleanroom
- ★ Measuring quantum devices at cryogenic temperatures



+ Opportunities to meet and interact with PhD students in quantum technologies, as well as UCLQ scientists and engineers

To apply send your CV and (one paragraph) statement of purpose to j.mohanty@ucl.ac.uk.

Application deadline: 1 July 2017. Places are strictly limited.

Accommodation near UCL will be provided to all attendees from 3 - 8 September (inclusive)

Course fees and accommodation will be fully paid for by EPSRC.

EPSRC

Engineering and Physical Sciences
Research Council

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LONDON CENTRE FOR
NANOTECHNOLOGY

UCLQ

Quantum Science &
Technology Institute