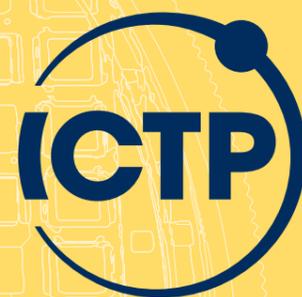


ICTP - Quantinuum Quantum Hackathon



17 - 23 April 2023
An ICTP - Quantinuum meeting
Trieste, Italy

Further information:
<http://indico.ictp.it/event/10163/smr3829@ictp.it>

The ICTP-Quantinuum Quantum Hackathon invites 18 international teams of students to the International Centre for Theoretical Physics to learn and develop quantum algorithms and apply them in the context of real-world use-cases with leading industrial partners.

Directors:

T. CERVONI, Quantinuum
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Description:

Quantum computing is undergoing a long-predicted transition from scientific revolution to industrial reality. Global governments, in partnership with industry, are making major investments in pursuit of quantum-related global goals.

As the technology approaches practical implementation, the ICTP and Quantinuum jointly organise a hackathon to contribute to a global education effort around quantum computing.

Following a series of lectures by Quantinuum and academic researchers, and workshops on quantum computing and algorithms, students will join scientists and industrial partners to learn how to deploy quantum algorithms focused on industrially-relevant use-cases across multiple sectors, from automotive, chemistry, finance, energy and pharmaceuticals. This multi-industry hackathon aims to accelerate applications of quantum computing, and to ensure that the benefits of this nascent technology are distributed equitably and globally.

Topics:

- Gate-based quantum computing
- Optimisation, routing and compilation of quantum circuits
- Quantum algorithms
- Quantum chemistry
- Diagrammatic reasoning
- Compositionality and computational linguistics
- Quantum hackathon

Local Organiser:

J. BARBIER, ICTP

How to apply:

Online application:
<http://indico.ictp.it/event/10163/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

17 February 2023

