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United Nations Institute for Training and Research

Unitar Online Catalogue

Quantum Materials Hackathon



: 10 7 2025

Other :

Other

Geneva, Switzerland :

Geneva, Switzerland

11 7 2025 to 13 7 2025 :

11 7 2025 to 13 7 2025

3 Days :

3 Days

Other :

Other

<http://www.unitar.org/gls> :

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US\$0.00 :

US\$0.00

email: pft-elearning@unitar.org

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Open Geneva (1800) :

Open Geneva (1800)



In celebration of the International Year of Quantum Science and Technology, the Open Quantum Institute (OQI) at CERN and the University of Geneva are co-organising the first Quantum Materials Hackathon, which will be hosted at CERN IdeaSquare on 11-13 July 2025.

This hackathon will explore how quantum computing could be utilised to design novel quantum materials and how these materials can contribute towards the UN-SDGs, aligning with OQI's overall mission. To achieve this, hackathon participants will be tasked with creating a practical application document, detailing how they would approach developing a quantum algorithm to design such a material. They will then begin to develop an algorithm with the potential to be refined further beyond the hackathon.



- Upskilling/educating new talent in the field of quantum computing/materials.
- Connecting academic and industrial quantum communities with each other and with new talent.
- Embedding participants and partnering organisations within the OQI community, facilitating future collaboration with others beyond the hackathon.
- Elaborating on a roadmap for applications of quantum materials to inform future research projects across academia/industry.