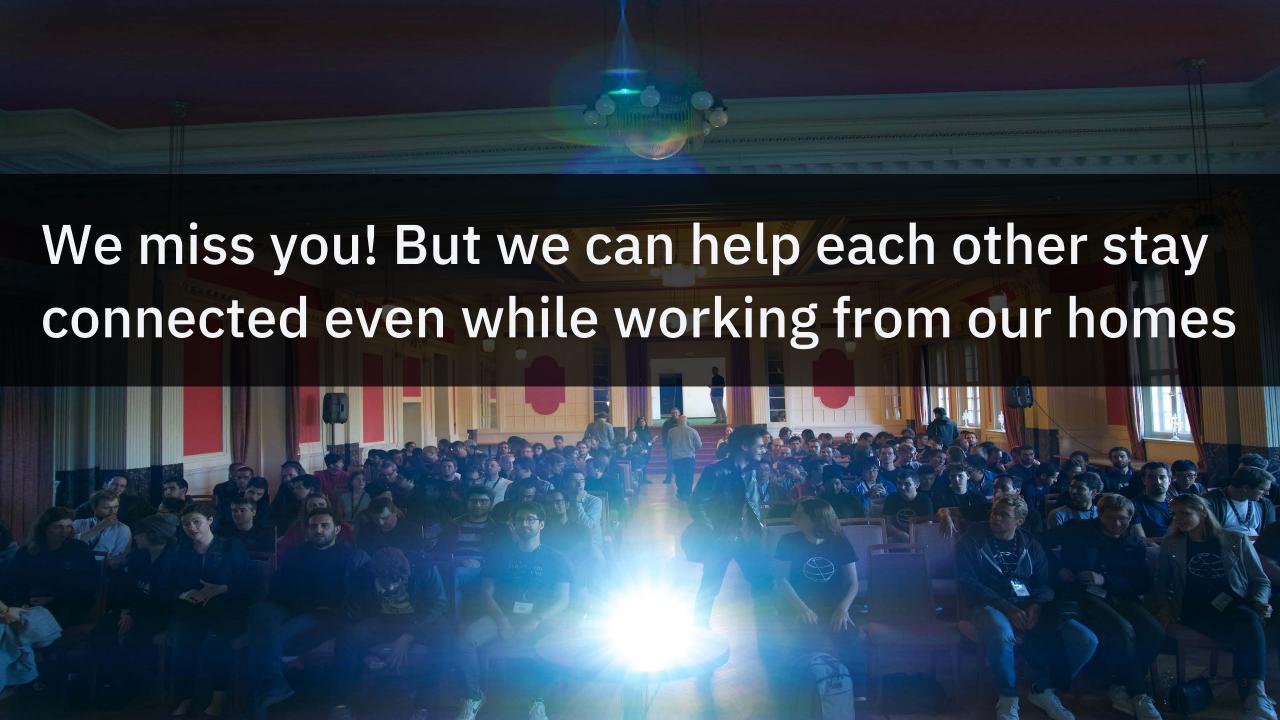
Oiskit Hackathon Global

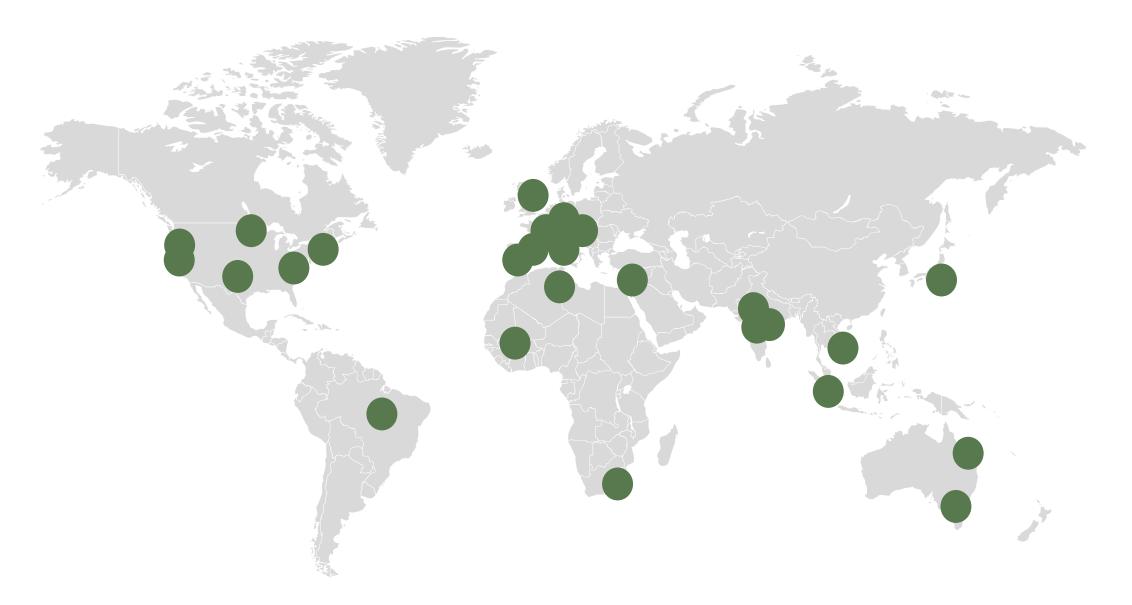
■ Welcome ■

Congratulations on joining our first global virtual hackathon





20+ COUNTRIES



55+ ORGANIZATIONS



































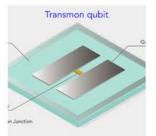


| October 7 | | October 8 | | October 9 | |
|-----------|-------------------------------------|-----------|---------------------------------|-----------|----------------------------------|
| Wednesday | | Thursday | | Friday | |
| | | | | | |
| 12:00 PM | Registration Deadline | 9:00 AM | Teams Finalized | 8:00 AM | "The Final Crunch" |
| | | | | 10:00 AM | Hackathon Ends |
| 4:00 PM | Live Presentation: | 9:30 AM | Unofficial Hackathon Start Time | | |
| | Welcome to Qiskit Hackathon Global! | | Live Q&A: General Support | 11:00 AM | Live Q&A: Presentations |
| | | | "Straggler" Support | 11:30 AM | Presentation Submission Deadline |
| 5:00 PM | Live Q&A: Team Formation | | | 11:45 AM | Final Presentations Begin |
| 5:30 PM | Team Formation Begins | 10:00 AM | Hackathon Begins | 1:45 PM | Final Presentations End |
| 5:30 PM | Active Support: Team Forming Begins | 9:00 PM | Hackathon Continues | | |
| 8:00 PM | Active Support: Team Forming Ends | | | 3:45 PM | Award Ceremony |
| | | | | 5:00 PM | Virtual Concert Celebbration |
| | | | | | |

S C H E D U L E E D T

Virtual events can be amazing if you have community 💗

















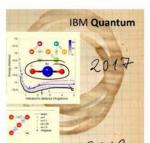


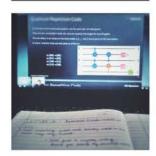




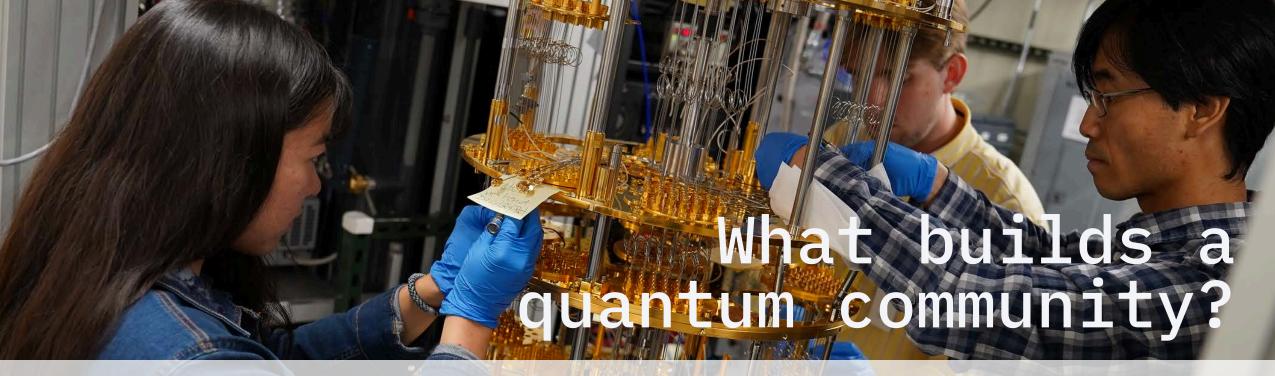












OPEN SOURCE

EDUCATION

LEADERSHIP

Explore Qiskit.org



The single best landing spot for new and existing members of the Quantum Community. Get started here to learn more about all things Qiskit.





Learn how to write your first quantum program - by having fun! Check out the repo of community-contributed Jupyter notebooks that leverage the features of Oiskit

Join the Qiskit Slack Community



Join the Qiskit Slack Community to connect with Advocates, IBMers, and other members of the community to ask questions and find the answers you are looking for (making connections along the way)!

Subscribe to Qiskit YouTube



For high-quality and fun videos that are accurate, practical, and engaging. Get started with the Coding with Qiskit series.

Learn Quantum with the Qiskit Textbook



The textbook is not only a coursework supplement: it's a comprehensive and interactive self-learner's resource for programming quantum computers using Qiskit!

Compete in Qiskit Camps & Challenges



From virtual Quantum Challenges, university hackathons, to full-scale Qiskit Camps - join a loacl event to put your Qiskit skills to the test and connect in person with fellow Qiskitters, as well as IBM Quantum Researchers.

Organize Community Events



With support from the IBM Quantum team, plan and host hackathons, meetups, or other events at your local university or community!

Apply to be an IBM Quantum Intern



Experience contributing to Qiskit, fundamental research in quantum computing, and promoting the relevance of quantum computing while gaining valuable skills and essential experience.

Become a Qiskit Advocate



Be a community leader focused in growing and developing open-source and Quantum communities, research, and development.

We can change the future of computing

We can change the

workforce

future of computing

Career Roles in Quantum Computing at IBM

STUDY

Physics

Math

Computer Science
Electrical Engineering
Computer Engineering
Mechanical Engineering

RESEARCH

Quantum computing theory

- Error correction
- Quantum algorithms
- Quantum device and quantum operations physics

Quantum applications

Quantum hardware and device design, including automated Hamiltonian extraction from geometry

Optimal control theory and experiment

Quantum verification, validation, benchmarking

Multi-qubit gates optimization

Quantum transduction

Materials science and engineering

Decoherence mechanisms

Low-noise cryogenic amplifiers

Experimental physics (low noise/cryogenic/RF/qubit) measurements

Simulation of quantum systems/physical systems

SOFTWARE

Architecture, systems software, and firmware engineering

Scientific programming

Programming languages such as Python, C++, and their bindings (Cython, pybind11, etc)

Graph algorithms and datastructures

Compiler design

Program language design

Qiskit

DevOps, Security, Cloud Services & APIs

User experience design

Quantum applications research

HARDWARE

Quantum engineering

Micro fabrication (especially thin-film deposition, lithography, and Josephson junction growth)

Packaging (bump bonding, fanout/interposers, light-tight enclosures)

Microelectronics process development and integration

Microwave circuit engineering

Mechanical engineering / Thermal engineering

Quantum control and classical electronics

Real-time systems, including DSP and FPGAs

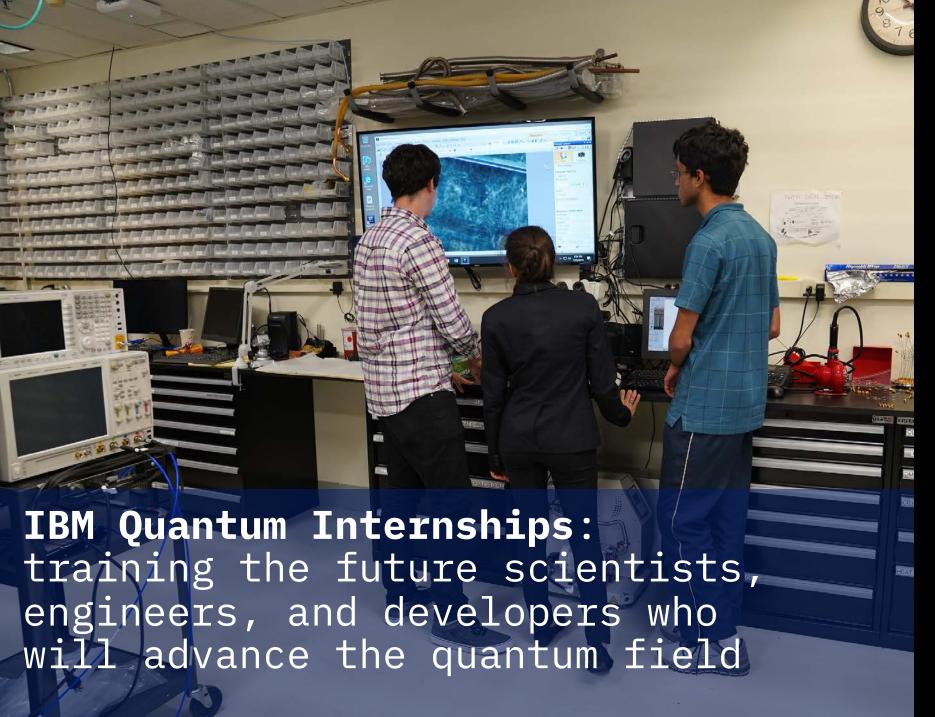
RF and µW radio transceivers

Low-power cryoelectronics, e.g. CryoCMOS and SFQ

Circuit design

Chip design and layout

Microwave Modeling



>70+ interns globally in 2020

>28 managers

>51 mentors

How to Apply

ibm.co/quantuminternships

Please apply by Monday, November 2, 2020 to receive the best chance at consideration

Apply to the job requisite most closely aligned with your interest and experience

Cover letters and recommendation letters are *not* required





IBM Quantum X <The Coding School />

Qubit by Qubit's Introduction to Quantum Computing for high school students and above APPLY NOW.

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■ Good luck! ■