# Qiskit Hackathon at World of Quantum

June 27-28



## Attendee Guide

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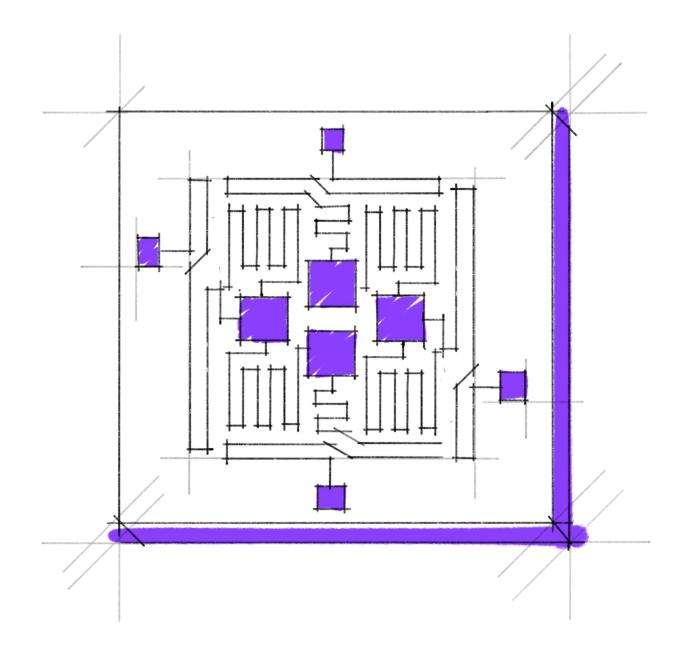
# About

Welcome to Qiskit Hackathon at World of QUANTUM!

We are excited to welcome you to our second hackathon in Germany and to see what amazing projects you create.

Please read through this Attendee Guide to find answers about the structure, setup, agenda, and resources for the hackathon. A more detailed version that includes the challenge information will be shared at the event.

We'll see you at the Qiskit Hackathon at World of QUANTUM!



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## Schedule



#### **Pre-Event**

Introduction to Quantum Computing with Qiskit [Watch replay]

#### 27 June

Tuesday

10:00 – 10:45 Check-In at the Hackathon Space

11:00 – 11:20 Welcome Note on main stage at World of QUANTUM

11:30 – 13:30 Lunch, team formation and guidelines in the Hackathon Space

13:30 Start of the Hacking Phase in the Hackathon Space

18:30 Dinner

24:00 Midnight Snack

Snacks, drinks, and coffee will be available throughout the entire hackathon

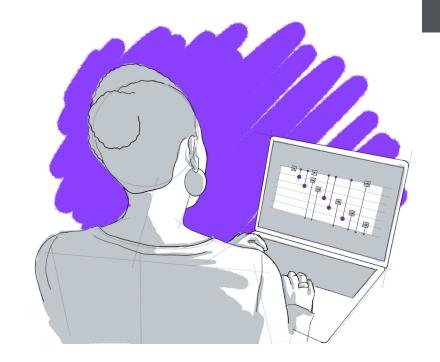
Between 20:00 (27 June) and 08:00 (28 June) you may ask questions in the Qiskit Slack Channel #woq23-hackathon-support for remote assistance. [Click here to join Qiskit Slack, if needed.]

#### 28 June

Wednesday

08:00	Breakfast
12:00	Lunch
13:30	End of the Hacking Phase and start of the Judging Phase
15:00 – 16:25	Optional Presentations in the hackathon space
16:30 - 17:00	Closing Ceremony on main stage at World of QUANTUM

Note: Time zone is CET



## Code of Conduct

The Qiskit Hackathon at World of QUANTUM is committed to maintaining the highest level of enjoyment, accessibility, and inclusivity by maintaining an environment of respect, empathy, and compassion for others. In order to support that, we ask that each attendee review the Qiskit Community Code of Conduct before the event, and be familiar with our community standards to join us in maintaining a safe and welcoming event for all.

## Useful Information



#### What to bring

We recommend bringing the below to make the most of your hackathon experience:

- Laptop with charger
- Phone charger
- Germany electric adapter if needed
- · Notebook and pen
- · Comfortable clothing
  - Jumper/jacket as fair halls can be slightly cold
- Re-usable water bottle

#### Food and beverage

- Food and beverages will be provided by the organizers throughout the hackathon.
- Please refer to the Schedule on page 03 for expected mealtimes.
- Food restrictions have been taken into account, but we recommend you bring your own food items if you are concerned about the available offerings.

#### Staying overnight

- Hackathon attendees are welcome to stay overnight in the hackathon space if desired.
  - If you plan on staying overnight, we recommend you plan accordingly with any items you might need such as blankets, pillows, sleeping bag and personal toiletries.
- Your hackathon ticket also allows you to leave and enter the venue throughout the night if needed.
- A security guard will be monitoring the space throughout the night.

## Team Formation



#### **Team Formation**

Once you've reviewed the challenge format, you should connect with other attendees to form a group!

Group up in teams of a minimum of 4 or maximum of 6 members.

If you are interested in a topic based on the challenge format, write it on one of the boards so that others can join your team. Interested in joining a team? Check out the topics on the boards and add your name on a post-it note.



#### Roles

To make it easier for you to organize your team, we have listed some roles which might be distributed among the team. This is a suggestion & is <u>not required</u> to be used.

Of course, it's still fundamental to discuss, brainstorm, and help the rest of the team, even if you use these roles.

#### Lector

Rewrites text to be easier to understand and better to follow

#### **Mathematician**

Comes up with formulas and theories.

#### **Planner**

Brings everything together, plans & has an overview of the lecture

# Scientific Visualization

Makes illustrations/
animations to help
understand the idea
and the
improvements

#### Coder

Writes efficient
Qiskit code
implementing the
theory

# Project Submission

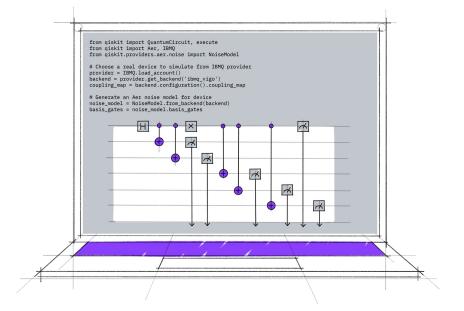


This is what you are required to submit in order to be eligible for the judging phase.

#### Jupyter Notebook

To make it easy for the judges we request you to submit a single Jupyter Notebook on a GitHub page containing all the content you want to be judged.

Exact components that need to be included in the notebook will be shared at the event.



Note: Your Jupyter Notebook must use Qiskit.

optional

presentation to be

eligible for a

Community Choice

Award.

Presentations will occur at 15:00 on 28

June and should be a maximum of 3 minutes/3 slides.

# Awards and Prizes



#### First Place Winning Team

1st Place Plaque 2500€ for Team Exclusive Quantum Swag

Selected by team of Judges



#### Community Choice Award

Qiskit Mug
Exclusive Stickers

Participants will choose a team based on an *optional* presentation



#### **Active Participants**

**Quantum Swag** 

To recognize your hard work in the Hackathon





Mentors will be available throughout the Hackathon to provide guidance and assist with any questions



Marcel
Pfaffhausser
Quantum
Community



Elisa Bäumer Quantum Community



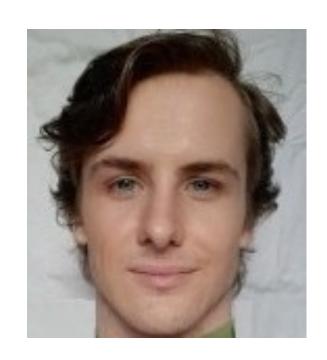
Fabio
Scafirimuto
Quantum
Community



Manuel Wirth
Quantum
Community



Eddybrando Vásquez Quantum Community



Floyd Creevey

Quantum

Community



\*James Weaver
Quantum
Community



\*Sophy Shin
Quantum
Community

<sup>\*</sup> These mentors will be available via slack <u>#woq23-hackathon-support</u> for the overnight hours to support you as needed.

### Resources



#### The Necessities

Install these software packages before the event:

- Python 3.7 or later
- Jupyter notebook
- Qiskit
- Suggested Tool: Anaconda

For installing Qiskit, you can follow the instructions provided <u>here</u> or watch a <u>video here</u>.

#### Qiskit Resources

Top Qiskit resources for you to review:

- <u>Contributing to Qiskit</u> (required for code contributions!)
- Qiskit tutorials
- Qiskit textbook
- Qiskit.org
- IBM Quantum Challenge Spring 2023

# Map of the Venue







# Stay connected!

Join the <u>Qiskit Slack Community</u> & the dedicated event channel <u>#woq23-hackathon-support</u>



Follow us on <u>Twitter</u>



If you have any questions, please reach **ask the mentors in-person** or **post in the** #woq23-hackathon-support Slack channel.