



Azure Quantum

4-hours workshop

BERLIN / HELSINKI / LONDON / MUNICH / STOCKHOLM / STUTTGART / TAMPERE

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Workshop goals

Employing quantum phenomena, quantum computers have the potential to solve the most complex computational challenges of humanity. Those are the problems that require calculating many possible combinations. Multiple industries and areas of our society are based on solving such problems – chemistry, material science, biology, climate, aerospace, financial sector, energy sector, cryptography, logistics and so on.

With the recent breakthroughs in physics and computer science, we are already able to experiment in hardware on quantum scale and build standardized and open-source quantum software stacks. While preparing for the availability of practical quantum computing at scale, already today companies from the mentioned above industries can build quantum algorithms and deploy them to the variety of quantum hardware available through Azure Quantum service.

Join one of our workshops and learn more about what you will be able to do in the nearest future and what you can do already today with quantum computing.



Agenda

Part I: Quantum computing – paradigm shift

We will talk about what makes quantum computing so attractive for the specific class of problems. Where we are today on the road to a practical and scalable quantum computer. Which industries and businesses should already today start exploring and experimenting with available quantum software and hardware stacks.

Part II: Quantum computing today through Azure Quantum

Overview of quantum hardware and software stacks available today from Azure Quantum service with live demos.

Part III: Hands-on labs with Azure Quantum for all participants

We have opportunity to provide access to Azure Quantum workspace during the workshop to all participants. Please, bring your own laptop, no special requirements, only web browser is needed. All participants will be able to create a real quantum program and deploy it to a real quantum hardware. Quantum hardware selection is a subject of the availability during the time of the workshop.





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Empowering the world to act.