

## **uptownBasel is the first commercial organization in Switzerland to be a hub in the IBM Quantum Network**

*uptownBasel and IBM today announced an engagement in quantum computing and high-performance computing that provides uptownBasel's tenants and ecosystem partners such as enterprises, start-ups, universities and leading research institutions access to quantum and high-performance computing as of January 1, 2023.*

**Basel, Zurich, December 8 2022:** uptownBasel is a 70,000 square meter innovation campus in Basel that will become home to 50-100 selected technology companies, start-ups, and academia institutions. Through partnering with IBM, including joining the IBM Quantum Network as a hub, and providing local high performance computing capacity. uptownBasel aims to accelerate innovation in crucial areas such as life sciences, industrial manufacturing, logistics and sustainability beyond traditional boundaries. It will foster collaborations between its partners, boost skill development, and promote leading innovation projects on quantum and high-performance computing technology.

Through this engagement, uptownBasel will gain access to IBM's advanced cloud-based quantum systems which will help to enhance the Swiss ecosystem in development of quantum technologies. Quantum computing is one of the three key areas of infrastructure development that are of key interest to the Swiss government for the future. uptownBasel will make innovation possible by offering this technology to enterprises, startups and leading research institutions.

The IBM Quantum hub and IBM's high-performance computing resources at uptownBasel will promote the use of advanced technology across the uptownBasel innovation campus ecosystem and will permit its partners to access:

- **Quantum computing:** As a hub in the IBM Quantum Network, uptownBasel will be able to access to advanced IBM Quantum systems and software, including enablement to apply quantum technology to explore complex material modeling, develop algorithms for advanced simulations, and explore development processes in life sciences and industrial manufacturing.
- **High performance computing:** High-performance storage and computing (HPC) capacity in the Swiss uptownBasel data center will support the progression of AI-related use cases and allow secure data storing and processing in Switzerland.

- **Ecosystem development:** Active exploration and progression of transformative quantum use cases, growth of quantum skills and talent, and fostering of quantum research collaboration across start-ups, enterprises and academia.

“uptownBasel has a unique history of innovation with world-class universities, entrepreneurs, scientists, and a high density of talent. Partnering with IBM will be the basis for innovation in quantum, AI and industry 4.0 that future generations will benefit from,” said Dr. Thomas Staehelin, investor and president of the board of uptownBasel.

“uptownBasel creates an important environment to accelerate innovation for the Swiss industry and expands our commitment to building open ecosystems to address the biggest challenges of our time through a combination of quantum computing, AI and high-performance computing,” said Scott Crowder, vice president, IBM Quantum Adoption and Business Development.

uptownBasel is currently ramping up a team of professionals in order to offer services and resources beginning January 1, 2023.

IBM has laid out a [roadmap](#) to advance quantum computing hardware, software and ecosystem development, and engages with clients to promote the expansion of quantum computing through IBM quantum hubs, engaging in projects with ecosystem partners, and helping clients develop new skills required to work with these technology opportunities.

Furthermore, IBM Consulting is leading the setup of uptownBasel’s technology hub, and IBM Systems is facilitating high performance storage and computing through its IBM Spectrum Fusion and RedHat OpenShift technology.

## **About Quantum Computing**

Quantum computing draws on the fundamental laws of nature to carry out calculations using quantum bits, or “qubits.” Unlike each bit on a classical computing system, which can only be one of two states, 1 or 0, at any given time, qubits can be a complicated mix of 1 and 0 simultaneously, which allows for exponentially larger calculations and gives quantum computers the potential to solve extremely complex problems of which even the most powerful classical supercomputers are not capable.

This year, the Royal Swedish Academy of Sciences recognized the research progress being made in quantum mechanics, honoring Institut d'Optique Graduate School – Université Paris-Saclay and École Polytechnique's Alain Aspect, J.F. Clauser & Associates' John Clauser, and the University of Vienna's Anton Zeilinger with the Nobel Prize in Physics 2022 for “our experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science.”

### **About uptownBasel and uptownBasel Infinity**

uptownBasel is an international competence centre for Industry 4.0 – networked with the world, anchored in Europe, and rooted in Basel. On the historic Schorenareal site in Arlesheim near Basel, an approximately 70,000 square metre research and production site is being built, where selected companies and their technologies will thrive. The focus is on healthcare, logistics and industrial production as well as the cross-sectional function of digitalization. With the opening of Building 1 and its use by the two European technology groups Bouygues and Vinci (Axians and Actemium) has created the first 400 new jobs since 2021. In total, the housing of 50 to 100 companies with up to 2500 jobs is planned. The investment volume amounts to over 500 million Swiss francs. uptownBasel is made possible by the private ownership of the family Monique and Thomas Staehelin and implemented by Fankhauser Arealentwicklungen.

[www.uptownbasel.ch](http://www.uptownbasel.ch)

uptownBasel Infinity, a wholly-owned subsidiary of the uptownBasel Group, runs the first commercial quantum hub in Switzerland. “QuantumBasel”, its Center of Competence for Quantum and Artificial Intelligence, offers access to Quantum and other high performance computing to the tenants and the ecosystem of uptownBasel. uptownBasel Infinity cooperates with various technology partners such as IBM, D-Wave Systems and others. Furthermore, they are expanding their global network to research institutes and universities. Damir Bogdan was appointed as CEO. He has a long background in technology, strategy and management, is active in Silicon Valley advising companies in terms of innovation and transformation and on the board of several companies inside and outside Switzerland.

[www.quantumbasel.com](http://www.quantumbasel.com)

### **About IBM**

For more information, visit <https://www.ibm.com/quantum>.

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