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FBK Pioneers in Research

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For researchers of tomorrow

"FBK Pioneers in Research" Summer School

8–12 September 2025

Fondazione Bruno Kessler, Trento, Italy

This immersive five-day program offers students a unique opportunity to explore cutting-edge research at **Fondazione Bruno Kessler**, with a special focus on **quantum technologies**—spanning quantum circuits, photonics, sensors, and more.

Participants will gain **hands-on experience in advanced laboratories**, including cleanrooms and characterization facilities, guided step-by-step through semiconductor device fabrication by experienced researchers.

The program also includes dedicated activities in **superconductivity and photonics**, creating a full “**quantum experience**” that blends theory with real-world applications. Designed to **bridge the gap between academic knowledge and scientific innovation**, this summer school prepares students to become future leaders in the fast-evolving world of quantum technologies.

The Summer School program

- **Cleanroom micro-nanotechnologies:** Follow the journey from silicon wafer to quantum device—explore sensor fabrication, chip testing, and how materials characterization advances quantum technologies.
- **Quantum technologies:** Learn how superconducting and photonic circuits drive quantum computing, and get hands-on with single-photon sources and sensors in cutting-edge lab sessions.
- **Social impacts and ethical issues:** Explore the idea of a “quantum society,” including global readiness, ethical challenges, governance, and the disruptive potential of emerging quantum technologies.

Eligibility

- ▶ Open to Master's students in Computer Science, Engineering, Physics, or Chemistry.
- ▶ **The number of spots available is limited to 15.**

Registration & fees

- ▶ Interested candidates should fill in the application form available at researchpioneers.fbk.eu where you will be asked to specify your university, faculty, and year of study.
- ▶ **The registration fee is 220€**, which includes accommodation for 4 nights at Villa S. Ignazio and lunch during the 5 days of the summer school.
- ▶ For participants who do not require accommodation, the **registration fee is 110€**.
- ▶ Candidates must upload:
 - ▶▶ An updated CV (maximum 2 pages)
 - ▶▶ A Cover Letter (maximum 1 page)
 - ▶▶ A 2-minute-video explaining why you decided to apply, what attracts you to the Pioneers Summer School, and why you believe you are a good fit for the program.

After submitting your application, all submissions will be reviewed to identify the most qualified candidates.

Important dates

- ▶ **Application deadline:** June 30, 2025
- ▶ **Acceptance notice:** July 10, 2025
- ▶ **Fee payment deadline:** July 24, 2025
- ▶ **Final acceptance:** July 31, 2025

For any questions, please contact us at fbk-pioneers@fbk.eu

For more details and to apply, please visit our website:

researchpioneers.fbk.eu



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