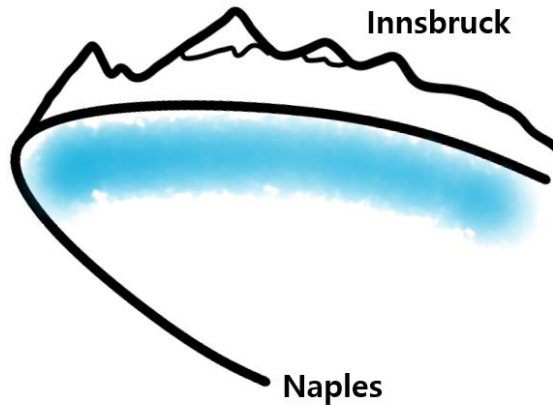


## AURORA EXCELLENCE FELLOWSHIP PROGRAM FOR VISITING BACHELOR AND MASTER STUDENTS



### WHAT IS IT ABOUT?

The Aurora excellence fellowship program for visiting Bachelor and Master students is an **internship** to enhance **scientific collaboration** and **exchange** in the fast-developing field of **quantum science and technology** between two of the nine universities who build up the Aurora European Universities Alliance.

Therefore, we are looking for enthusiastic and talented students who want to join an **international team** of researchers and deeply delve into **quantum physics** and have the fantastic opportunity to gain invaluable **skills in electronics, photonics, programming, data analysis**, and many more. The list of possible hosting groups is given below.

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### WHAT ARE THE BENEFITS?

The successful candidate will be hosted and supervised in one of the theoretical or experimental research groups at the **Universität Innsbruck** (Inst. of Theoretical Physics, Inst. of Experimental Physics) or the **University of Naples, Federico II** (Dept. of Physics “Ettore Pancini”, Dept. of Electrical Engineering and Information Technologies).

In case of acceptance, a stay of a **3 up to 5-week timeframe between June 15<sup>th</sup> and September 30<sup>th</sup> 2023** in one of the research groups will be granted, of which the **travel expenses** and **accommodation** will be fully covered following the host institutions internal rules (further information will be available upon acceptance).

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## WHAT ARE THE REQUIREMENTS?

Highly motivated and curious students with a passion for quantum science and technology who are **currently enrolled in a Bachelor or Master program in physics or engineering** at either **Universität Innsbruck** or **University of Naples Federico II**, are welcome to apply.

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## HOW TO APPLY?

**Application deadline** is Wednesday **May 31<sup>st</sup>**. Interested students submit their application in the form on the [erbiium.at](http://erbiium.at) website and **additionally send** a **1. letter of motivation**, **2. CV** and **3. transcript of exams** to [AuroraQfellowship@uibk.ac.at](mailto:AuroraQfellowship@uibk.ac.at)

When appropriate, the selection committee can ask for additional reference letters.

The applicant will be informed about the decision within two weeks after the application deadline by email. Awarded candidates need to confirm by email within one week after receipt of the acceptance email whether they accept the fellowship or not.

**Contact information:** [AuroraQfellowship@uibk.ac.at](mailto:AuroraQfellowship@uibk.ac.at)

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## PARTICIPATING RESEARCH GROUPS

Awardees of the excellence fellowship can choose to conduct their internship in any of the following groups:

**Students enrolled at the University of Naples Federico II can join one of the following groups at Universität Innsbruck:**

- Dipolar Quantum Gases, Experimental/Theory Group, PI: Prof. Francesca Ferlaino [link](#)
- Photonics, Experimental Group, PI: Prof. Gregor Weihs [link](#)
- Quantum Interfaces, Experimental Group, PI: Prof. Tracy Northup [link](#)
- Strongly correlated Quantum Matter, Experimental Group, PI: Prof. Hanns-Christoph Nägerl [link](#)
- Ultracold Quantum Matter, Experimental Group, PI: Prof. Rudolf Grimm [link](#)

**Students enrolled at Universität Innsbruck can join one of the following groups at the University of Naples Federico II:**

- Physics of Structured Light and Matter, Experimental Group, PIs: Prof. Lorenzo Marucci and Dr. Filippo Cardano, [link](#)
- Quantum Technologies Laboratory, Experimental Group, PI: Dr. Martina Esposito [link](#)
- Quantum Photonics, Experimental Group, PI: Dr. Vincenzo D'Ambrosio
- Quantum many body physics and quantum algorithms, Theory Group, PI: Prof. Procolo Lucignano
- Quantum Matter, Quantum Chaos, Complex Systems, Theory Group, PI: Dr. Alioscia Hamma, [link](#)
- Quantum Internet, Theory Group, PIs: Dr. Massimo Caleffi and Dr. Sara Cacciapuoti [link](#)
- Material Electrodynamics and Quantum Technologies, Theory Group, PI: Dr. Carlo Forestiere, [link](#)