

Would you like to dive into the quantum world and discover the secrets of your messages?

2nd Call of Applications to the 8th edition of Barcelona International Youth Science

Challenge (BIYSC) is OPEN until April 12th.

Discover this life-changing summer program for young aspiring scientists!

In this <u>BIYSC project</u> at the **Institute of Photonic Sciences** (<u>ICFO</u>), we invite you to take a journey to the **core of quantum physics**, starting from its foundations, and building day by day the basis to understand the **upcoming quantum technologies and communication**.

We'll start with an introduction to the **mathematical language** (basic algebra and matrices) that will help us unfold the counterintuitive consequences of quantum physics. We will see how quantum physics is strictly connected to **information processing** and how it can improve current technologies, such as **communications**, **cryptography**, and **computing** through theoretical and practical activities in a friendly environment. **Are you ready?**

BIYSC is a two-week international summer program of excellence, which is committed to stimulating talent and promoting vocations among young High School students in 10th-12th year (approximately 15-18 years old).

A total of **17 International Research Centres and Scientific and Technological Institutions** are involved in this **8th edition** of the program, enabling the creation of <u>17 hands-on research projects</u> covering a broad range of subjects across the **STEM field.**

Discover the details of the **BIYSC project** "Quantum Physics in Communications and Cryptography for New Technologies" at **ICFO**:



Are you ready to dive into the quantum world?

Participants will live a **unique experience** in a **real research environment**, conducting the project of their choice together with active scientists and researchers. Next summer, around **150 selected** aspiring scientists will enjoy **BIYSC** from **July 2nd to 12th** in **Barcelona**.

To date, we have welcomed **over 600 High School students from more than 70 countries**, and we are willing to welcome new talented students like you!

If you wish to know more about the program, you may visit www.biysc.org and download the following document:

DOWNLOAD BIYSC 2024 LEAFLET

If you have any questions we can help with, we would be very happy to clarify whatever you may need to know by email or a call. Please do not hesitate to <u>contact us</u> for further information.

APPLY NOW

Science moves the world forward and you are its future!

Our best regards,

The ICFO Outreach team on behalf of the BIYSC organization