

Real science for talented pre-college students

Barcelona, 7th - 18th July 2025



Barcelona International Youth Science Challenge (BIYSC) is a transformative experience for talented pre-college students from all over the world with a genuine interest in **Science and Technology**.

This two-week residential program is held annually in **Barcelona**, a vibrant city with a scientific ecosystem of international relevance composed by **top-ranked Universities, Research Centers and Hospitals**.

BIYSC is designed for an **international group of ~150 brilliant High School students (ages 15-18)** highly motivated for Science, Technology and Research.

At BIYSC, you will boost your career by...

- **Working hands-on in a real project** alongside **professional researchers**.
- Attending **lectures from leading scientists**.
- Participating in **debates and networking sessions**.
- Meeting **like-minded peers** and being part of a **multicultural community**.
- Attending the **Opening Ceremony** and **Keynote Expert Lecture** at the UNESCO World Heritage Site La Pedrera - Casa Milà.
- **Presenting your research** during the **Closing Ceremony** at the UNESCO World Heritage Site La Pedrera - Casa Milà.
- Discovering the **cultural heritage** and **landmarks of Barcelona**.



**Barcelona
International
Youth Science
Challenge**

Organized by:

**Fundació
Catalunya
La Pedrera**

15 research projects

+55 hours of hands-on experience

~150 selected participants

+30 nationalities



Barcelona International Youth Science Challenge

1st Application Call: January 8th - February 18th, 2025

2nd Application Call: February 19th - April 4th, 2025
Only for projects with available places

Selected participants **choose a project** that suits their interests and **conduct cutting-edge research** in a real **Research Centre, University or Hospital**:

Life Sciences



- Multi-omics in Leukaemia research
- Planarian Stem Cells
- Neurobiology of trauma
- Synthetic Biology
- Unravelling Tumorigenesis
- Molecular breeding



Check out the available projects!

Physics



- Quantum Cryptography Lab
- Astrophysics and Cosmic Rays
- Quantum Entanglement

Medicine



- Broadening medical expertise
- Infectious diseases: healthcare and research

Maths



- Advanced Mathematics: from theory to real impact

Chemistry



- Innovation in Photochemistry and Drug Synthesis

Engineering



- Building a PocketCube Satellite
- Acoustic and light Engineering

Applications and more information at:
www.biysc.org



✉ contact@biysc.org

Hosting research centres:



In collaboration with:



Committed to:



With the support of:



Organized by:

Fundació Catalunya La Pedrera

Fundació Catalunya La Pedrera, an independent and private organization led by an expert Board of Trustees, is committed to advancing social, environmental, and cultural progress while promoting sustainable development. The foundation has focused on fostering scientific talent and inspiring future vocations through immersive programs designed for outstanding pre-university students. By collaborating with leading research institutions, the foundation has provided thousands of opportunities to nurture the next generation of scientists and support excellence in research.