Barcelona International Youth Science Challenge

Barcelona International Youth Science Challenge (BIYSC) is a life-changing experience for talented young 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 and technological ecosystem of international relevance composed by top-ranked Universities and world-class Research Centers and Hospitals.

BIYSC is designed for an international group of ~150 brilliant young High School students highly motivated for Science, Technology and Research, aged between 16 and 18 years old.

KEY BENEFITS OF THE PROGRAM

At BIYSC, you will boost your career by:

- Working hands-on in a project of your choice, immersed in a Research Centre, University or Hospital.
- Attending lectures from leading scientists.
- Participating in debates, discussions and networking sessions.
- Being part of a multicultural scientific community.
- Attending the Opening Ceremony and Keynote Expert Lecture at the UNESCO World Heritage Site La Pedrera – Casa Milà.
- Presenting your research project in a Symposium during the Closing Ceremony at the UNESCO World Heritage Site La Pedrera – Casa Milà.
- Discovering the cultural heritage and main landmarks of Barcelona.
NEW! Predicting tap Water Neurotoxicity using laboratory model organisms
Institute of Environmental Assessment and Water Research (IDAEA-CSIC)

NEW! Advanced Mathematics: Bridging the Gap between Fundamental Theory and Real-World Impact
Centre for Mathematical Research (CRM)

NEW! Quantum Entanglement and Superposition: How Quantum Mechanics helps us understand our Universe
Institute of Cosmos Sciences of the University of Barcelona (ICCUB)

Multi-omics in the fight against Leukaemia
Josep Carreras Leukaemia Research Institute

Unravelling Tumorigenesis and its pathways with Drosophila as a model organism
Institute for Research in Biomedicine (IRB Barcelona)

Synthetic Biology Innovations: engineering tomorrow’s life
Department of Medicine and Life Sciences at University Pompeu Fabra (UPF MELIS)

The Neurobiology of Trauma: effects on behaviour and brain function.
Institute of Neurosciences (INc)

Molecular Breeding & Gene Editing: Feeding the world in a changing climate
Centre for Research in Agricultural Genomics (CRAG)

Innovation in Photochemistry and Drug Synthesis: Shaping a Sustainable Future
Institute of Chemical Research of Catalonia (ICIQ)

Planarian Stem Cells: the genetics of immortality
Department of Genetics, Microbiology and Statistics at University of Barcelona (UB)

Protein Engineering to improve Plastic-Degrading Enzymes.
Barcelona Supercomputing Center (BSC)

Quantum Physics in Communications and Cryptography for New Technologies
Institute of Photonic Sciences (ICFO)

Cosmic ray’s detection, Astrophysics at your fingertips.
Institute of High Energy Physics (IFAE)

La Salle R&D

PRE-MED NEW! Beyond the scalpel: discover the Surgery of the future
Germans Trias i Pujol Research Institute and Hospital

PRE-MED The Medicine behind Organ Transplantation.
Bellvitge University Hospital (HUB)

PRE-MED Broadening Medical Expertise: from the clinic to the lab bench and back.
Clinic University Hospital (HClinic)

Applications and more information at:
www.biysc.org

Fundació Catalunya La Pedrera is a reference for the promotion of talent and of the scientific, technological and environmental vocations as well as in educational support to expand opportunities. Science Academy is the Foundation’s training proposal with a wide variety of scientific programs designed to meet the challenges of a new era. We work with excellence, rigor and passion to promote the critical spirit, curiosity, creativity, innovation and empowerment of thousands of children, young people and professionals in Catalonia and around the world.

In collaboration with: Committed to:

Hosting research centres: