



## Partners of the Network



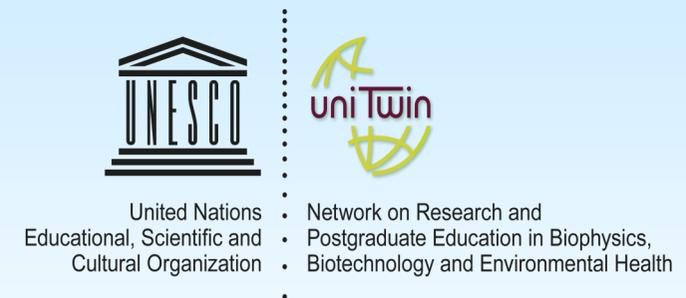
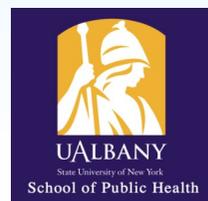
All interested candidates are welcome to be PhD student of the UNESCO/UNITWIN Interregional Network on Biophysics, Biotechnology and Environmental Health.

## UNITWIN POSTGRADUATE NETWORK

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## Advisory Universities



# UNESCO/UNITWIN Network on PhD Education and Research in Biophysics, Biotechnology and Environmental Health

Since research and education potential of developing countries is not sufficient to prepare science leaders for modern demands, UNESCO is to assist countries in developing their national science system, strengthening university education, particularly through the integration of research and education, and improving the quality of science teaching, including e-learning.

For this purpose, in 2018 Director General of UNESCO Ms. Audrey Azoulay approved the establishment of “UNESCO/UNITWIN Interregional Network on PhD Education and Research in Biophysics, Biotechnology and Environmental Health” coordinated by UNESCO Chair in Life Sciences International Postgraduate Educational Center (Armenia).

**UNESCO/UNITWIN Interregional Network on PhD Education and Research in Biophysics, Biotechnology and Environmental Health** aims to have an impact on students, and the community as a center of academic excellence, innovation, inquiry, and diversity that contributes to furthering development and advancement of life science research fostering creativity, integrity and community service. The purpose of the Network is to inspire future scientists to advance knowledge and become responsible leaders in innovation, research and technology management.

The partners of the Network are world-leading, research-intensive universities, with strong, student-oriented educational strategies.

Central to the success of our policy and underpinning all of our activities are three principles:

**Quality:** always striving to achieve the highest quality in everything we do.

**Internationalization:** working with leading universities and building strong partnerships with other leading organizations.

**Safety:** our students will live and study in a secure environment, where the only important concern is to be successful in research and science. Armenia is one of the safest countries that provides hospitable reception and warm welcome to all the guests.

This Network would make possible to integrate national research and educational potential with the international one, preparing modern science leaders according to social, economic demands of home countries.

Life Science International Postgraduate Educational Center is committed to diversity and inclusion; we seek

to ensure a learning environment in which all our students and staff – regardless of gender, economic background, religion, race, ethnicity, or disability – feel they are a part of an intellectual community and thrive in their work.

The NETWORK is organized in partnership with the following institutions and universities:

- UNESCO Chair -Life Sciences International Postgraduate Educational Center (**Armenia**)\*
- National Polytechnic University of Armenia (**Armenia**)
- Union of Advanced Technology Enterprises (**Armenia**)
- Lomonosov Moscow State University (**Russia**)
- Bogomoletz Institute of Physiology (**Ukraine**)
- UNESCO Chair– Institute for Problems of Cryobiology and Cryomedicine of NAS of Ukraine (**Ukraine**)
- I. Beritashvili Center of Experimental Biomedicine (**Georgia**)
- UNESCO Chair- University of Tehran (**Iran**)
- Mashhad University of Medical Sciences (**Iran**)
- Maragheh University (**Iran**)
- Istanbul Medeniyet University (**Turkey**)
- Jamia Hamdard University (**India**)
- BLDE SHRI B M Patil Medical College Hospital & Research Center (**India**)
- Southampton University (**UK**)
- Institute for Health and the Environment, University at Albany (**USA**)

\*Two-side collaboration with Stony Brook University (**USA**)

In compliance with the PhD program (66 USA credits) of Institute for Health and the Environment of University at Albany (USA) and Graduate School of Biological Sciences at Southampton University (UK) the NETWORK prepares modern science leaders in Biophysics, Biotechnology and Environmental Health. The Department of Biophysics consists of three branches: **Cellular and Molecular Biophysics, Cellular and Molecular Neuroscience, Biophysics of Cell Pathology**. The Department of Biotechnology consists of four branches: **Microbiological Biotechnology, Biomedical Instrumentation, Innovation in Life Sciences and Cryobiology & Cryomedicine**. And the Department of Environmental Health has three branches: **Epidemiology, Environmental Health Control, Radiobiology & Dosimetry**.

The theoretical and practical courses are conducted in English.

In the first year of the PhD program all the students will have theoretical and practical courses in Biophysics in Armenia. These courses will be helpful for the student to determine further educational plan and will give a unique opportunity to be a part of students, who will have courses taught by an international team of leading scientists from all over the world. Another core advantage of UNESCO/UNITWIN Network is that PhD students have an exclusive chance to conduct the research part of their dissertation in laboratories of Armenia and partner universities, expanding their knowledge and practical skills.

Second year successful students will also be engaged in the Network’s research activities carried out in the framework of international grants, and will get commensurate remuneration. Moreover, the best alumni will become faculty members of the Network.

As the final outcome of this Project our students will detect and improve their critical thinking and independent learning skills, which are so essential for future leaders and decision makers.

After successfully completing the entire course, the graduates receive a diploma of the international standard according to the regulations of home country as well as Certificate of the UNESCO/UNITWIN Network.

## Application Requirements

The Network is a joint venture between education and research on Biophysics, Biotechnology and Environmental Health, which offers a three-or-four-year PhD programs developed and delivered with partners utilizing the experience of leading European universities.

To be eligible for Doctoral program (Ph.D.) the following conditions must be met:

- To be specialist in life sciences or in the areas of physics, mathematics, chemistry and engineering,
- To present MS diploma,
- To have proficiency in English (minimum B1).

*\*Those applicants who have publications in international journals will have priority in being accepted to the program.*