

# Functional nanomaterials and advanced technologies

Immanuel Kant Baltic Federal University

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **no**

Price: **175 000 рублей в год**

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After taking this programme you will become a highly qualified employee of a research laboratory in such rapidly developing fields of science as optics, photonics and biomedicine. You will learn how to use advanced technologies for the creation and research of nanomaterials in high-tech industries and medical applications.

Having mastered the modern theoretical and experimental methods of research and creation of nanomaterials for medical and biological applications, you will be able to use functional nanomaterials in your own industrial projects, as well as develop and implement your own scientific projects.

The study is conducted in English, which is a key requirement for successful interaction with the world's leading universities and research centers. For those students who are not yet fluent in English, taking part in an English-language Master's course is a unique chance to improve their language skills and master the language of scientific communication.

## Specializations within this programme

### Main Courses

During the first two semesters students will attend lectures, tutorials, seminars, problem solving sessions and laboratory courses. The first semester includes basic courses with lectures, seminars and a laboratory practicum – starting on 01.09.2021. In the second semester, each student will choose the module from three focused on: Biomedical Applications, Optics and Photonics, Industry Applications.

### Practical training and career opportunities

The courses within the programme are taught by world-renowned scientists who will share their considerable experience with the students. The internships are carried out in the leading Russian and European research centers in various formats: workshops, case studies, laboratory research, experiments, thematic experiments as well as participation in professional competitions and grants, etc., which allow the students to build a path for your professional development and find useful contacts for career growth.

- Laboratory Facilities of the Science and Technology Park "Fabrika" in the fields of science such as Optics, Photonics, and Biomedicine, working in both commercial companies and research centers.

Researcher

- Analyst
- Specialist of a Research Centre