

# Instrument Engineering

National Research ITMO University

Degree or qualification is awarded: **M.S. in Instrument Making**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **262 000 RUB per year**

Programme webpage at the university website:

[http://en.ifmo.ru/en/faculty/1/Department\\_of\\_Computer\\_Technologies\\_and\\_Control.htm](http://en.ifmo.ru/en/faculty/1/Department_of_Computer_Technologies_and_Control.htm)

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The student will learn basic of physics of information gaining, also they study perspective geometry and engineering physics, applied mechanics, material science and technology of constructional materials, electronics and microprocessor technology etc. Practical trainings work on the base of university laboratories and the specialized design centers.

## Here are the programs which you can apply for:

Bioengineering and Biotechnical Systems

Systems and Technologies of Digital Production

## Specializations within this programme

### Bioengineering and bioengineering system

The students will learn about the information technologies and measured systems in the field of biotechnologies and biotechnological systems in view of the high developing of bioproduction market and biotechnological production application in the regions of Russia and abroad.

The programme has 6 specializations:

- Bioengineering and biomaterials
- Bioengineering systems
- Element base of bio- and nanophotonics
- Molecular nano- and biophotonics (CEP)
- Organic materials of photonics (CEP)
- Modern methods of instrument engineering (CEP)

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## **Systems and technologies of digital production**

The students will learn how to research, use and develop new competitive serial domestic goods with the application of systems and technologies of digital production.

## **Disciplines**

New technologies in the instrument engineering

Additive technology and fast production

Intelligent systems of industrial enterprise management

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