Master's program "Medical Engineering" including the Certificate program "Regulatory Affairs in Biomedical and Biopharmaceutical Engineering"

The program focus

Medical engineering covers research methods using engineering and technical knowledge, as well as development, production, operation and certification of medical equipment, biomaterials, medical products, software and information support for health care.

Regulatory affairs are a set of issues of legislative and technical regulation of development, testing, manufacturing, distribution, quality management and conformity assessment of medical devices, as well as related medical products (pharmaceutical, cosmetic, disinfectants). Technical regulation of the European Union and international standards are mainly studied. The graduate gets a master's diploma and an additional certificate of the "Regulatory relations in biomedical and biopharmaceutical engineering" course.

Where to get a job?

Hospitals:

- LISOD Israeli Oncological Hospital http://www.lisod.com/;
- Obstetrics & gynecology clinic ISIDA https://isida.ua/eng/;
- Institute of Cell Therapy https://instituteofcelltherapy.com/en/.

Conformity Assessment Bodies & Consulting Companies:

- TÜV Nord Group https://www.tuv-nord.com/;
- DEKRA https://www.dekra.com/;
- PSI CRO https://www.psi-cro.com/.

BioPharma, Implants & In vitro Diagnosis:

- Merck & Co., Inc. (MSD) https://www.msd.com/;
- BioImplant https://bioimplant.at/;
- LifeScan https://www.lifescan.com/.

Engineering and Regulatory Affairs in Healthcare is Your Way to Success!!

Disciplines

- Medical physics;
- Medical imaging & signals (Biomedical information display systems);
- High-tech systems for diagnostics and therapy;
- Medical microprocessor systems (Digital signal processors + Design of information and measurement systems);
- Medical expert systems;
- Physiology of sensory systems;
- Electronic sensors and biochips;
- Regulatory affairs in biomedical engineering and biopharmaceutics;
- Quality assurance systems in biomedical engineering and biopharmaceutics;
- Methods of quality control of biomedical and biopharmaceutical products.

Teaching Staff.

Graduate departments:

- Biomedical Engineering Department https://bmi.fbmi.kpi.ua/;
- Translational Medical Bioengineering Department https://bi.fbmi.kpi.ua/.

Our leading teachers combine teaching and practical work in companies, certification bodies and clinics:

- Prof. Vladyslav Shlykov (Medical Equipment & Medical Imaging);
- Dr. Maryna Sychik (Clinical Engineering);
- Dr. Olena Golembiovska (Regulatory Affairs & Biopharmaceuticals);
- Dr. Tetana Lutsenko (Biotechnology & Biomaterials).

Contact information

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Center for International Education: https://istudent.kpi.ua/