

Students life

The students life is also interesting events outside of the university. Students are practicing at the center of Disaster Medicine with a certificate of First Aid.

During the production practice, under supervision of experienced specialists, students acquire the skills of repair, installation and maintenance of medical equipment.

Students of the Department take part in various All-Russian and International scientific and technical conferences and forums, where they awarded diplomas and prizes for their projects, as well as cultural and sporting events.



International students of the department

History and achievements of the department

The first enrollment of students on the specialty "Engineering in Biomedical Practice" was held in 2003. The first graduates of engineers was in 2008. As an independent structure, the Department of Biomedical Engineering was established in 2006.

The Department was recognized as an effective structural subdivision among the universities of Russia by the results of the contest of the Ministry of Education and Science. Large research projects are being implemented with the financial support of the Russian Science Foundation, joint research is being conducted with leading universities in Germany.



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«Biomedical Engineering»
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Alumni feedback

«Academic and research staff of the department has a high scientific level and extensive experience in practical work in the field of biomedical engineering», –**Farea Sultan**, PhD, Head of the company "AL-SULTAN Medica", Republic of Yemen;

«The education process at the department of Biomedical Engineering is very interesting», –**Kurdiah Farad**, Dental Equipment Engineer, Palestine;

«The obtained knowledge and skills are sufficient for successful work in the field of biomedical engineering», –**Phiri Steven**, Biomedical Engineer at Mission Pharma, Zambia;

«The laboratories of the department are equipped with the modern medical and diagnostic equipment», –**Baoleki Sikaletsho**, Biomedical Engineer at Central Hospital, Botswana.

Department «Biomedical Engineering»

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Admissions office

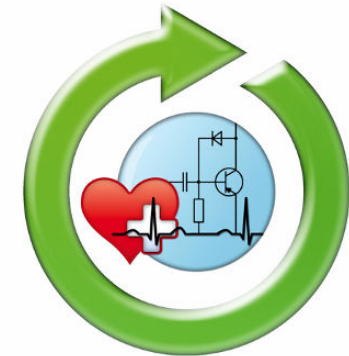
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TAMBOV STATE
TECHNICAL UNIVERSITY

Institute of
POWER ENGINEERING, TOOL ENGINEERING
AND RADIO ELECTRONICS

Department of
«BIOMEDICAL
ENGINEERING»



BSc and MSc programs
«Biomedical Engineering»

12.03.04 – bachelor (4 years)
12.04.04 – master (2 years)

Full-time and part-time degree programs

Tambov – 2020

Bachelor degree program

«Engineering in Biomedical Practice»

Diagnostics and treatment of human diseases are impossible without modern medical equipment.

The Department trains specialists in medical technology who develop, maintain, repair, sell and purchase modern medical equipment, devices and systems.

Training program

- ✓ fundamental and general engineering courses;
- ✓ profound study of electronics and information technologies (electronics and microprocessor technology, databases, programming languages, computer graphics etc.);
- ✓ number of biomedical engineering courses (medical devices, apparatus, systems and complexes, design of medical devices, maintenance services for medical equipment etc.);
- ✓ biological courses (biology, biophysics, ecology etc.);
- ✓ extended economic cluster (economics of enterprise, marketing and management);
- ✓ in-depth study of English at the training center for international specialists.



PhD Vetrov A.N. on practical training on medical equipment

Scholarships, grants and internships

Students of the Department take part in the research work in the following areas: mathematical modeling of the cardiovascular system; optical coherence and diffuse optical tomography; monitoring health of schoolchildren etc.

Trips to Russian and foreign specialized exhibitions and enterprises are organized. For example, at exhibitions of medical equipment "Healthcare" (Moscow), on the enterprises for the production of medical equipment, etc.

Students have a possibility to get secondary medical education in a medical college.

Master and post-graduate courses

Bachelor program graduates «Biotechnical Systems and Technologies» can continue their study doing Master course «Medical and Biological Devices, Systems and Complexes» (12.04.04). Graduates can continue their study as PhD students of «Biomedical devices, systems and complexes» course.



Farea Sultan (Republic of Yemen) is the first PhD graduate of the department

During the last ten years, more than 25 foreign students have got Bachelor's and Master's degrees on Biomedical Engineering from Republic of Yemen, Jordan, Peru, Palestine, Zambia, Botswana, Iraq etc. Foreign citizens defended three PhD theses.

Alumni career

Graduates of the Department work in medical organizations, leading companies for the development, production, supply, operation, repair of medical equipment worldwide.

Knowledge and skills obtained at the Department allow graduates to work not only on the profile of medical equipment, but also in other areas related to electronics, complex devices and information technologies.



A graduate of the department at work on a single-photon emission computer tomograph in an oncological clinic

The world market size of medical equipment is increasing annually and amounts to more than 360 billion dollars a year. This ensures the high demand and high level of payment for graduates of the Department who work in their specialty, for example, in positions:

- ✓ service engineers for medical equipment;
- ✓ design engineers, test engineers and medical equipment certification specialists;
- ✓ heads of medical equipment operation services;
- ✓ specialists in complex equipment of medical organizations;
- ✓ managers for the promotion of medical equipment, managers of tender departments, etc;
- ✓ R&D (Research and Development) departments in medical corporations.