

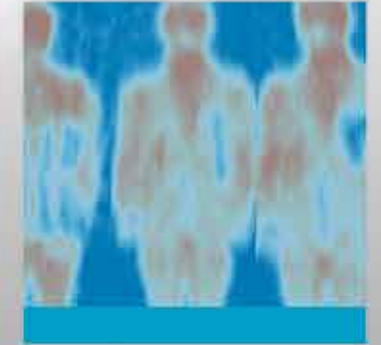
Biomedical Engineering Centre

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In 2012, the Rector of the Military University of Technology appointed an interdisciplinary team - Biomedical Engineering Centre (BEC). The team's task is to carry out projects related to biomedical engineering, the production of new innovative technologies and equipment related to medicine within the scope of MUT activity. At the end of 2012, the team prepared the project for 5.1. IE OP competition entitled „The Development of Cluster of Biomedical Engineering Centre” aiming at the diffusion of innovations with MUT and other research institutions to companies associated with the cluster. The cluster was established by 15 entities: enterprises, research organizations, scientific institutes, university and business support institution.

The aim of the cluster members is to strengthen the potential of biomedical engineering industry through creating the networks of cooperation between its participants, supporting innovation and stimulating innovative solutions in the field of biomedical engineering, as well as their commercialization. Currently 43 entities belong to the Cluster of Biomedical Engineering Centre. Within the framework of the project funded by the Polish Agency for Enterprise Development in the Institute of Optoelectronics of MUT emerge the laboratories of "Biomedical Engineering Centre", equipped with the state-of-the-art research and development apparatus.

RESEARCH WORK

Biomedical Engineering Centre implements several research projects, including among others:

- I. The development of technology for diagnosis and treatment of cancer and cardiovascular diseases with the use of photodynamic therapy
- II. The development of technology for the detection of pathogens causing hospital infections and bacteriological risks.
- III. The development of technology to increase the population of stem cells and their differentiation in cell cultures with the use of low energy lasers.
- IV. IT software for medicine applications
- V. The influence of electromagnetic fields on human body
- VI. The development of innovative technology with the use of molecular sieves in the diagnosis and treatment of cancer
- VII. The use of graphene in medicine

