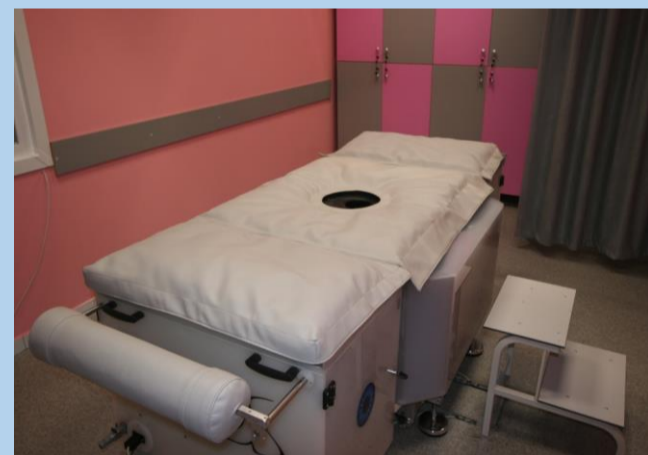


MSc, PhD, and Research Positions are Available at ITU Electromagnetics Research Group and Mitos Medical Technologies

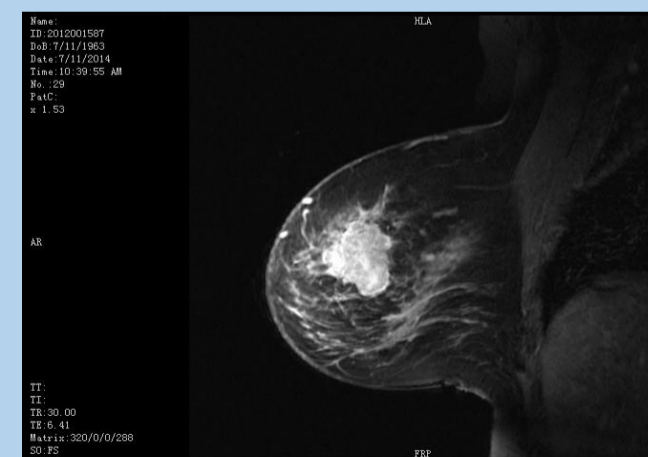
Vacancies are available in Electromagnetic Research Group (ERG) at the Istanbul Technical University and ERG's spin-off company, Mitos Medical Technologies. The successful applicants will be allocated to the one of the following projects,

- Brain Stroke Detection and Monitoring
- Capitalizing on a Common Disruptive Microwave Measurement System for Imaging & Applications
- Microwave Tissue Analysis
- Microwave Imaging of Breast Cancer

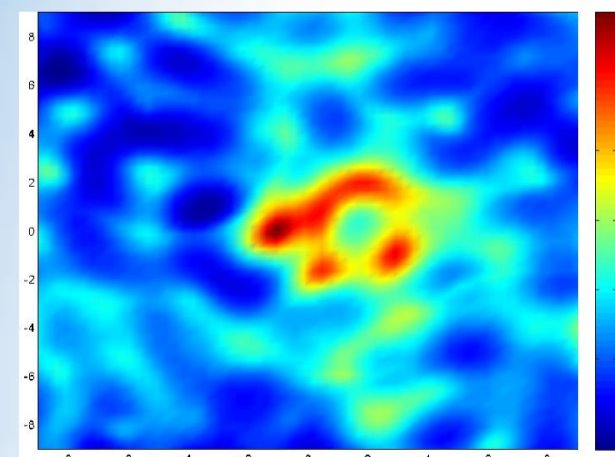
ERG is an established research group with twenty years of experience in development of microwave imaging techniques for defense and medical applications. In two thousand ten, with the emerging need to commercialize the developed microwave imaging technologies, Mitos Medical Technologies was established by the ERG and it's industrial partners. Since then, research and the development have been carried out in a merged environment where the real world problems are considered and dealt together with the academic research. ERG and the Mitos recently successfully pioneered to the development of a microwave breast cancer imaging device, currently under clinical trial in the Cerrahpasa Medical Faculty, Istanbul University.



Measurement unit of the microwave breast cancer imaging unit developed by Mitos termed MMT.



MRI image



MMT image

The image above shows the MRI image and the MMT image of a breast. From the MMT image it can be seen that the lesion is a malignant tumor. Recently the results of the MMT system is published in Chinese College of Surgeons and European Society of Surgery (CCS & ESS) 2015 joint meeting and received the **Best Paper** award.

Another on-going project is the Microwave Tissue Diagnosis device, shown below. This device is designed to be utilized during surgical operations where the malignant tissue can be diagnosed and excised thoroughly.



Microwave tissue analysis system (EMALIZ).

We are a multi-disciplinary group actively committed to the goal of contributing to the technological developments on the microwave health applications. Candidates must have a B.S. degree in Engineering or Computer Science. Highly motivated candidates with a background in any of the following areas are encouraged to apply. Please send your application along with a CV to mitosmedikal@gmail.com.

- Digital Signal Processing
- Medical Image Processing
- Embedded System Control
- Robotics
- Systems and Control Engineering
- Electromagnetics
- Programming

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