Post-doctoral fellowship for optoacoustic (photoacoustic) imaging using an OPO (Optical Parametric Oscillator) laser as the optical source for excitation and CMUT devices as the signal receivers

Project funding: **TÜBİTAK 1003**
Project duration: **January 15th 2019 – January 15th 2022 (36 months)**
Application start date: April 1st 2019

The position will be kept open for applications, till the position is filled.

In this highly interdisciplinary research project, you are going to be collaborating with expert engineers and scientists from different disciplines such as physics, electrical and electronics engineering, materials science and engineering, mechanical engineering, and medical doctors specialized in radiology.

Profile of the post-doctoral researcher:

1. A Ph.D. degree from optical engineering, physics, bioengineering, biomedical engineering, electrical engineering or a relevant field is a must.
2. The candidate is expected to be creative, self-motivated, and should inspire group members to work efficiently and dynamically in a friendly atmosphere and collaborative environment.
3. Team player skills and enthusiasm to work in a multi-disciplinary, and collaborative environment is a must.
4. Willing to learn new knowledge is a must.
5. Being self-motivated is a must.
6. Being self-driven post-doctoral researcher within the project boundaries of the optoacoustic imaging project is a must.
7. Experience with an interdisciplinary research project for an extended period of time, such as Ph.D. degree education time-interval, is a must.
8. Whenever in doubt about the taken decisions related to the project, asking for confirmation from other team members of the project is a must.
9. Experience in using lasers for the extraction of absorption spectra of different nanomaterials such as indocynanice green (ICG), or iron oxide, or other relevant nanomaterials is a strong plus, but not a requirement.
10. Experience in optoacoustic or thermoacoustic imaging using nanoparticle contrast agents for contrast enhancement and/or photothermal therapy using nanoparticles are very strong pluses.
11. Experience to build and/or use laser systems are project requirements but not obligation.
12. Background in optics or optoacoustics is a strong plus, but not a requirement.
13. Good or very good or excellent command of the English language is required.
14. Strong theoretical and experimental skills and hands-on experience with optical systems is a very strong plus.

Contact person for the applications:

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UNAM 2018 Annual Report: http://unam.bilkent.edu.tr/docs/UNAM_AR2018.pdf