OPEN MS\textsuperscript{C}. & PHD POSITIONS IN THE DEVELOPMENT OF MEMS-BASED DEVICES

BACKGROUND

Sabancı University MicroElectroMechanical Systems (SUMEMS) research group in the Faculty of Engineering and natural Sciences (FENS) at Sabancı University, Istanbul, Turkey, is carrying out research in the area of MEMS-based devices for wireless and life science applications. The group is working in a multidisciplinary environment spanning materials, designing and simulating microsystems, fabrication process development and characterization.

OBJECTIVE

The main focus of the future research will be on modeling, design, fabrication and characterization of 1) lab-on-a-chip device (biosensors and microfluidics) for the detection of disease markers, 2) low power RF devices for wireless communications, 3) novel device structures for application in the field of infrared detection and inertial sensors (gyro sensors and accelerometers).

ELIGIBILITY FOR MASTER POSITION

- The candidate should have a four year bachelor diploma or equivalent in electrical/electronic engineering.
- Basic knowledge in RF/microwave design and device characterization.
- Knowledge of semiconductor and MEMS fabrication process is highly desirable.
- Hand’s on experience of CAD tools: ANSYS, Coventorware, COMSOL and MEMSCAP is not required but plus.

ELIGIBILITY FOR PHD POSITION

- M.Sc. degree in electrical/electronic engineering or equivalent.
- Knowledge of semiconductor and MEMS fabrication process is must.
- Experience in RF/microwave design and device characterization.
- Hand’s on experience of CAD tools: ANSYS, Coventorware, COMSOL and MEMSCAP

We offer a challenging, multinational environment, with excellent career prospects for highly motivated individuals. The successful candidates will have access to the fabrication and characterization facilities at Sabancı University Nanotechnology Application Centre (SUNUM).

CONTACT AND APPLICATION

If you are eligible and interested to join SUMEMS group please contact with Prof. Yaşar Gürbüz, 
\texttt{yasar@sabanciuniv.edu}. Your mail should include; a short cover letter which describing your qualifications, curriculum vitae (CV) with two references.