OPEN MSc. & PHD & POSTDOCTORAL & RESEARCHER POSITIONS IN MICRO/NANO TECHNOLOGIES, MICRO/NANOELECTRONIC DEVICES AND IR DETECTORS

BACKGROUND

Sabancı University MicroElectronic Systems (SUMICRO) research group in the Faculty of Engineering and natural Sciences (FENS) at Sabancı University, Istanbul, Turkey, is carrying out research in the area of micro/nano/MEMS-based devices for energy harvesting and IR detection applications. The group is working in a multidisciplinary environment spanning material, optoelectronics, and microelectronics aspects: design, simulation, fabrication, process development and characterization.

OBJECTIVE

The main focus of the research is on modeling, design, fabrication and characterization of highly efficient rectifying antenna (rectenna) power collector, consist of nano-antenna and MIM diode, for IR-Near Space Plane applications.

POST-DOCTORAL or RESEARCHER FOR NANO TECHNOLOGY, NANOELECTRONIC DEVICE AND IR DETECTORS

Job description:

- Research on MIM/MIIM diodes and nano-antenna structures.
- Modeling, simulation and fabrication of rectenna devices.
- Coordination of research tasks and technical collaboration with project partners.

Qualification:

- PhD degree in physics, material engineering, electrical/electronic engineering with a solid knowledge of solid state devices / physics and micro/nanofabrication processes. Knowledge on related CAD tools (TCAD device design and simulation, HFSS (Ansys), COMSOL) is desirable.

ELIGIBILITY FOR PHD POSITION

- M.Sc. degree in physics, material engineering, electrical/electronic engineering.

ELIGIBILITY FOR MASTER POSITION

- The candidate should have a four year bachelor diploma or equivalent in physics, material engineering, and/or electrical/electronic engineering.

CONTACT AND APPLICATION

If you are eligible and interested to join SUMICRO group please contact with Prof. Yasar Gurbuz, yasar@sabanciuniv.edu