STIPEND OFFER

Position in the project: MSc student

Scientific discipline: Information and communication technologies

Job type (stipend): Scholarship with tax free stipend

Number of job offers: 1

Stipend amount/month: (1500 PLN - tax free , i.e. expected net income at 1500 PLN)

Position starts on: June 1st, 2017

Maximum period of contract/stipend agreement: 12 months

Institution : Gdansk University of Technology

Project leader: Prof. Michal Mrozowski http://mwave.eti.pg.gda.pl/index.php?k=150

Project title: EDISOn: Electromagnetic Design of flexIble SensOrs

Project description:

The goal of the project is to engage young PhDs and MSc students in the development of a software package InventSIM for fast and accurate simulation-based design of sensing devices and their associated passive circuitry with carefully engineered electromagnetic properties. The software is based on the finite-element method and employs a unique mesh deformation technique and model order reduction to enable fast optimization.

Key responsibilities include:

1. Design of sensor devices and/or antennas on flexible substrates using specialized software provided by a project partner (EM Invent),
2. Fabrication of prototypes of selected devices,
3. Final verification of design by measurements,
4. Report writing (at least one in 2 months)
5. Writing an MSc thesis related to the Edison project

Profile of candidates/requirements:

1. BSc degree in electronics/telecommunications/physics
2. MSc student with interest in design RF & microwave passive components (the topic of the MSc thesis to be selected by a student will have to fit the scope of the Edison project)
3. Basic programming in Matlab (or other languages such as C++, C# or Python)
4. Basic knowledge of measurement equipment used to characterize microwave devices and antennas
5. Good command of English
6. Above average sore in courses in electromagnetics/microwave engineering/antennas

Required documents:

1. CV with the description of particular skills or achievements related to the scope of the project
2. Copies of publications/student project/certificates
3. A copy of the BSc thesis
4. Transcripts of records

Please submit the following documents to: mwave@eti.pg.gda.pl

Application deadline: April 8th , 2017

For more details about the position please visit:

http://eminvent.com/projects.html (English)

http://mwave.eti.pg.gda.pl/index.php?k=204 (Polish)

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."