



## **Marie Curie Early Stage Researcher (ESR) – Electronics Sensors Design Researcher**

We are looking for a highly motivated and talented early stage researcher to complement our team in design of low-cost and energy efficient environmental monitoring system related to the SENSEIVER-ITN experiment and sustainable healthy environment.

Sixteen PhD positions are offered in a Marie Curie Initial Training Network “Low-cost and energy-efficient LTCC sensor/IR-UWB transceiver solutions for sustainable healthy environment” (SENSEIVER-ITN). SENSEIVER-ITN is a multi-site Training & Research Program funded by the European Commission (Program People, FP7) and organized by research institutions from the public and private sector in six European countries. The aim is to develop and design all the components of the environmental monitoring system (LTCC sensing materials, LTCC sensors, transceivers and data acquisition system) that will provide sustainable healthy environment.

### **Description**

After design and fabrication of the sensors it is necessary to develop electronic circuit in order to convert physical parameters which is measured into electrical signal that is appropriate for further transmission and processing. The realization of an intelligent system for environmental quality monitoring and control would be the next step. The monitoring and processing system should collect data from sensors/transceivers, calculate pollutant concentration in previously predefined time intervals, make a report and turn on an alarm when hazardous situation is detected.

The main objectives are to design and develop electronic circuits (usually based on microcontrollers) for processing measured data from the sensors and to develop innovative concepts for data acquisition from remote sensors (measuring information related to air, soil and water pollutants).

### **Qualifications**

Candidates applying for a PhD position (Early Stage Researcher, ESR) must hold a Master/Diploma degree obtained not longer than four years ago at the time of appointment.

All applicants must not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months within the last 3 years prior to the starting date of the employment. Researchers can be nationals of any country within or outside of the EU. Good knowledge of the English language (fluently speaking and writing) is essential.



### ***How to apply***

For application send:

- Your CV
- Copy of your university degree(s) or academic transcript (list of module marks)
- A cover letter (1 page) outlining your qualification for the project
- A list of publications (if available)
- Other documents to demonstrate specific experiences (if available).

### **Application deadline: 28/01/2012**

Applications have to be addressed to the coordinator, Prof. Dr. Goran Stojanović and either sent via email to [sgoran@uns.ac.rs](mailto:sgoran@uns.ac.rs) (documents attached as PDF-files) or via mail to:

Dr. Goran Stojanović, Faculty of Technical Sciences, University of Novi Sad, Trg Dositeja Obradovića 6, Novi Sad, 21000, Serbia, phone: +381 (0)21 4852552.

Job Position No.: 1

### ***Research Fields***

Electrical Engineering, Electronics Engineering

### ***Career Stage***

Early stage researcher or 0-4 yrs (Post graduate)

### ***Research Profile***

First Stage Researcher (R1)

### ***Benefits***

Successful candidates will be employed from **March 2012** for **24 months** (PhD students). Besides the payment for the full-time employment, a mobility fee will be granted.

### ***Host institution***

The host institution is the University of Novi Sad, Faculty of Technical Sciences, Department of Electronics, Novi Sad, Serbia.

