



University POLITEHNICA of Bucharest
Faculty of Automatic Control and Computers
Department of Computer Science



Research Fellow in Intelligent traffic monitoring and control – University Politehnica of Bucharest

The Faculty of Automatic Control and Computers (A&C) of University Politehnica of Bucharest invites applications for a Research Fellow position in Intelligent traffic monitoring and control in the framework of the FP7 project “ERRIC: Empowering Romanian Research on Intelligent Information Technologies” <http://www.erric.eu/>

The Faculty of Automatic Control and Computers is the largest and most prestigious faculty in the domains of Computer Science and Control Systems Engineering in Romania. A&C is constantly research-ranked among the top in the country and is already known as a national pole of excellence in Intelligent Information Technologies. The Faculty groups more than 120 people in its research laboratories and hosts the National Center for Information Technology with its high-performance multi-core GRID resource computing center. A&C has strong collaborative links with high excellence research units across the EU and high-tech companies in Romania and abroad.

In this context, the main goal of the ERRIC project is to empower A&C's existing excellence in research in selected areas of Intelligent Information Technologies: agreement technologies, semantic and collaborative technologies for the web, advanced Grid technologies, large scale distributed system services, and adaptive intelligent control.

As a result, A&C and the ERRIC project provide an opportunity for researchers in the above mentioned areas to accelerate their careers in a stimulating research-focused environment.

A talented scientist, at the mid or even an early career stage, is sought to pursue an internationally competitive research programme in Intelligent traffic monitoring and control. The post sits within the Department of Computer Science of A&C (<https://csite.cs.pub.ro/index.php/en>). The person to be appointed will join the Distributed Systems Software Laboratory and will interact with other research groups of the Department.

Research activities will be carried out at the premises of the Department of Computer Science of A&C but in close collaboration with other researchers from the EU strategic partners of the ERRIC project, including short research visits to these universities.

The duration of the posts is 24 months, starting the 1st of September 2011 (or later). During this period the researcher will be employed by University Politehnica of Bucharest under a full-time fixed-term contract with full social security coverage.

Main Activities

- Conduct research of novel ways to develop intelligent traffic monitoring and control services considering the current challenges in the attempt to improve traffic conditions.
- Develop methods to coherently aggregate traffic information from different sources (such as zonal traffic control centers, roadside sensors, on board units, etc.)
- Intelligently use the collected information to predict the short term traffic shape, and dynamically assist the car drivers by offering user associated services
- Present results to members of the Department, to ERRIC strategic partners, and external audiences, to disseminate research results.
- Prepare high-quality papers for journals, workshops and international conferences.
- Be involved in the preparation of grant applications, in particular for FP7 calls.
- Contribute to the development of an international research environment.

- Assist with supervision and training of junior members of the Laboratory.
- Carry out administrative roles as required by the project regulations.

Qualification and experience

Applicants should:

- already be in possession of a doctoral degree in Computer Science or a closely related area and in a subject relevant to the post
- have an outstanding research record in their field
- show excellent capacity for independent research
- be highly motivated and proactive
- have excellent team working skills
- have excellent communication skills (written and verbal) and scientific report writing skills
- be eager to disseminate research results by preparing journal articles and conference papers
- have the potential to develop fund raising research proposals

Experience with EU-funded research project implementation and grant application preparation is an advantage. Fluency in English is a prerequisite.

A competitive salary is offered, depending on experience and achievements.

Post location

University Politehnica of Bucharest, Department of Computer Science
Faculty of Automatic Control and Computers
313, Spl. Independentei, sector 6, RO-060042, Bucharest, Romania

Closing date for applications

31 May 2011.

Informal enquiries

Informal enquiries about this post may be directed to Prof. Theodor Borangiu, Tel. +40 21 4029 314, Fax +40 21 3170 912, E-mail: theodor.borangiu@cimr.pub.ro or Prof. Radu Dobrescu, Tel. +40 21 4029 105, Fax: +40 317 09 12, E-mail: radud@isis.pub.ro

Application submission

Your application must include a full academic CV (including publication record), a statement outlining the research you envisage during your appointment and two letters of recommendation. Applications should be submitted online at www.erric.eu/researchjobs. After the submission, applicants are requested to also send a notification to info@erric.eu. The letters of recommendation should be sent directly by the persons recommending the applicant to the address info@erric.eu.

Following the closing date, you will be informed by email whether or not you have been selected to be invited to participate in the next stage of the selection process. It may take up to two weeks following the closing date before we will be able to contact you.

At the University Politehnica of Bucharest we promote equality and value.