Call for expression of interest for a position of Embedded Systems Developer in the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)

Position(s): One Embedded Systems Developer
Project: Virtual and programmable industrial network prototype deployed in operational Wind park – 5G-PPP VirtuWind, GA 671648, funded under Horizon 2020, H2020-ICT-14-2014
Desired starting date: December 1, 2016
Duration: 12 months with possibility of extension
Location: Heraklion, Crete, Greece
Opening date: 3-10-2016
Closing date: 18-10-2016
Ref.: “VirtuWind-01-Oct2016”

Description
The candidate will be responsible to develop secure, lightweight applications for networked heterogeneous embedded devices, using a variety of APIs and programming languages.

Individual tasks will include:
- Development of applications for devices with limited resources (sensors, embedded, virtualized)
• Development of lightweight security mechanisms
• Implementation of communication mechanisms using lightweight Internet of Things protocols.
• Implementation of lightweight security mechanisms and protocols
• Development of authorization mechanisms

Prior experience in the field, ability to work in a research team and to take initiative, ability to communicate with people and experience with a variety of heterogeneous hardware platforms and programming languages are very important.

• **Required qualifications:**
  o A degree in Computer Science or a related field
  o Prior work experience in the field of secure embedded systems
  o Excellent oral and written English skills

• **Desired qualifications:**
  o Publications in the field of secure embedded systems
  o Skilled in Java, Node.js, Kernel System Calls and Verilog
  o Experience in developing OSGi applications
  o Experience in developing applications for embedded devices (ARM-based) and wireless sensors (IRIS, Zolertia Z1, SunSPOTS)
  o Experience with Internet of Things protocols and applications (CoAP, MQTT) and lightweight web services (DPWS)
  o Experience in developing security mechanisms for critical applications (e.g. cyber-physical systems), including XACML-based access control/authorization frameworks

**Application Submission**

Interested candidates can submit their applications via [http://www.ics.forth.gr/jobs/en/](http://www.ics.forth.gr/jobs/en/) using the link “Apply for the position” under the announcement. Applications must include:

• Detailed CV
• Scanned copies of academic titles
• Academic transcripts for each acquired degree
• Prior work experience certificates
• Detailed presentation of prior work, studies and/or publications, demonstrating knowledge of desired skills (e.g. experience on specific programming languages and hardware platforms)

**Contact Information:**

• For information and questions regarding the application and selection procedure, please contact Ms. Eleni Tsintari ([tsintari@ics.forth.gr](mailto:tsintari@ics.forth.gr)).
• For information and questions about the advertised position the activity of the group or the Institute, please contact Dr. Ioannis Askoxylakis ([asko@ics.forth.gr](mailto:asko@ics.forth.gr)).

**Selection Announcement**

The result of the selection will be announced on the website of ICS-FORTH. Candidates have the right to appeal the selection decision, by addressing their written objection to the ICS secretariat within five (5) days since the results announcement on the web. They also have the right to access (a) the files of the candidates as well as (b) the table of candidates’ scores (ranking of candidates results). All the above information related to the selection procedure will be available at the secretariat of ICS-FORTH in line with the Hellenic Data Protection Authority.