Call for expression of interest for a position of Part-time Senior Researcher in Incident Response and Digital Forensics in the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)

Position(s): Part-time Senior Researcher in Incident Response and Digital Forensics
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: January 1, 2017
Duration: 19 months, until the end of VirtuWind project (31-07-2018)
Location: Heraklion, Crete, Greece
Opening date: 20-October-2016
Closing date: 20-November-2016
Ref.: “VirtuWind-02-Oct2016”

Description
The candidate will participate to the research and innovation activities of the Cyber Security group and of the Computer Emergency Response Team of FORTH (FORTHcert) in the context of the EU 5G-PPP project Virtual and programmable industrial network prototype deployed in operational Wind park – 5G-PPP VirtuWind (www.virtuwind.eu).
The Cyber Security Group of FORTH-ICS engages in a wide variety of research and innovation activities from conducting fundamental research to deploying technology prototypes for operational users. The key activities of the Cyber Security Group include:

- Cyber threat intelligence
- Trustworthy computing platforms and devices
- Security Event and Incident management
- System Security
- Next Generation Network Security
- Human Aspects of Cyber Security

In the context of the cybersecurity activities of FORTH, the Computer Emergency Response Team of FORTH (FORTHcert: www.forthcert.gr) provides professional and managed IT security services to assess and manage information risk and emerging threats for complex multi-site enterprise establishments and major domestic and International corporations and organizations. As part of its security framework that delivers comprehensive security and integrated management, FORTHcert leverages the power of the cloud and international collaboration through its active participation in all major Computer Emergency Response Team (CERTs) communities, including FIRST and TERENA-TI, to help organizations realize faster time-to-protection to secure their businesses.

This position is related to the research and innovation activities of 5G-PPP VirtuWind project (www.virtuwind.eu). In the context of VirtuWind project the cybersecurity group and FORTHcert are responsible for research and innovation activities that assure security-by-design for the SDN and NFV ecosystem by introducing revolutionary concepts for secure Software-Defined-Networking (SDN) and Network-Function-Virtualization (NFV) for critical infrastructures including the development of mechanisms for industry-grade security and fault tolerance and mechanisms for inter-domain SDN security and incident response. Individual tasks will include research and innovation activities in the following domains:

- Establish comprehensive threat and risk framework for industry-grade SDN networks
- Define security mechanisms for north-/southbound and inter-controller interfaces, securing the controller (e.g., prevent DoS).
- Develop mechanisms for network monitoring and intrusion detection for SDN networks.
- Signed Virtual Network Functions.
- Accountability mechanisms for SDN networks.
- Digital forensics mechanisms for SDN networks.
- Develop inter-domain incident detection mechanisms including real-time.

**Required qualifications:**
- A degree in Computer Science or a related field
- Postgraduate degree (MSc, PhD) in Computer Science, Cybersecurity or a related field
- Prior work experience in the field of digital forensics and incident response
- Excellent oral and written English skills

**Desired qualifications:**
- Research track record and publications in the fields of digital forensics and incident response
- Experience in supervision of PhD or MSc students
- Experience in EU funded collaborative research and innovation projects in the area of digital forensics and incident response
- Experience in prototype or service development in cybersecurity
- Expert witness and technical consultancy experience in digital forensics
- Professional certification in digital forensics and/or digital response
- Experience in collaboration with governmental, EU or international organizations in cybersecurity
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.

**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. Sotiris Ioannidis ([sotiris@ics.forth.gr](mailto:sotiris@ics.forth.gr)) & 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.