Call for expression of interest for an Early-stage researcher in storage architectures in the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)

**Position:** Early-stage researcher in storage architectures using emerging storage devices

**Project:** BigStorage, Marie Curie ETN project

**Desired starting date:** August 1, 2017

**Duration:** 1 year – duration can be extended under different grants/terms

**Location:** Heraklion, Crete, Greece

**Salary:** This is a Marie Curie ESR position in the BigStorage ETN project. The salary is specified by the corresponding Marie Curie rules.

**Opening date:** 21 June 2017

**Closing date:** 7 July 2017

**Ref.** BigStorage-01-June-2017

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**Description**

The Institute of Computer Science of FORTH (http://www.ics.forth.gr) at Heraklion, Crete, Greece, has an immediate opening for an early stage researcher (ESR) in the BigStorage (http://bigstorage.oeg-upm.net) Marie Curie ETN project.

The goal of the position is to examine how future storage systems should be architected to take advantage of new storage devices for improving the capabilities and efficiency of Big Data applications. This work will provide the ground-work for shifting storage architectures from centralized SANs to distributed approaches over low-latency devices. It will examine techniques for achieving the required performance and reliability, while offering increased flexibility.

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**Mobility Schedule**

- The work will be conducted at the CARV Laboratory, in the Institute of Computer Science (ICS) at FORTH (http://www.ics.forth.gr/carv)
- The candidate will have the opportunity to spend a period of 6 months to another Project partner.

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**Position Requirements**

The ideal candidates would hold a Master’s in computer science, computer engineering or related field, would have developed familiarity in computer systems and parallelism, and good systems building skills in low-level systems software, such as kernel modules, network protocols, data serving systems and middleware, key-value stores, file-systems, block-level storage systems, NAND Flash and NVM, controller firmware.

**Applicants must have:**

- A Bachelors and Masters degree in computer science or related fields.
- Documented experience in systems software, with preference to any of the following fields: data storage, distributed storage systems, "NoSQL" data serving systems, Linux kernel, NAND-Flash storage.
- Strong systems review and analysis skills.
- Willingness and ability for cooperative work in the context of a research team.

**Desired skills:**

- Experience on concurrency issues, inter-process communication and multi-threaded programming.
- Experience with performance analysis and optimization.

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<tr>
<td>Prof. Angelos Bilas</td>
<td>URL: <a href="http://www.ics.forth.gr/~bilas">http://www.ics.forth.gr/~bilas</a></td>
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<td></td>
<td>Email: <a href="mailto:bilas@ics.forth.gr">bilas@ics.forth.gr</a></td>
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**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 FORTH-ICS in line with the Hellenic Data Protection Authority.