Research fellowship on Security of integrated IoT domotic systems - Università Ca’ Foscari Venezia
(Italian law 30 December 2010, n.240, art. 22)

The present document in English is to be considered as a mere summary of the main provisions of the notice of competition which is available in Italian at the following (link). The text in Italian is the official text of the notice of competition for all legal intents and purposes and, in the event of non-conformity with the present document, it shall prevail.

Description
The Department of Environmental Sciences, Informatics and Statistics at Università Ca’ Foscari Venezia invites applications for a post-doc fellowship in:

**TITLE:** Security of integrated IoT domotic systems  
**SSD:** INF/01  
**Tutor:** Riccardo Focardi

**Abstract:** The research aims at studying the security of domotic IoT devices. We will focus on cryptographic protocols, firmware and hardware, proposing a precise attacker and thread model. We will investigate practical solutions that will balance performance, energy consumption and security. The research contract is funded on an industrial research project which requires a background both on academic research and on industrial consultancy and development: in particular, we are looking for a researcher that can do both research and technological transfer and with previous experience in the industrial sector. The researcher will work in strict collaboration with the companies involved in the project.

The research may be carried out in English.  
The fellowship is intended to provide the successful candidate with the opportunity to pursue his/her own research while benefiting from the range of expertise at Università Ca’ Foscari Venezia.

Who can apply
Prospective candidates are expected to hold a master's degree in Computer Science or related disciplines.

Ca’ Foscari encourages applications from researchers with positive evaluation in all the criteria in individual proposals such as Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar.  
Researchers having successfully completed by 30/04/2018 Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar funded projects are warmly encouraged to apply.

**Duration of contract:** 12 months approximately starting: September 2018
Stipend: The research fellowship amounts to **34354,44 Euros per year**, including taxes and social charges.

**Deadline for submission of applications:** 17/07/2018, 12.00 noon.

**How to apply:**

Candidates should submit:
1. The application form;
2. A CV in European format, duly dated and signed;
3. A copy of a valid identity document (either Identity Card or Passport);
4. (If available) Evaluation Summary Reports of Marie Skłodowska Curie Actions - Individual Fellowships/ ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) individual proposals having passed all the evaluation thresholds;
5. (If available) Details of Marie Skłodowska Curie Actions - Individual Fellowships, ERC Starting Grants, FIRB (Italian Fund for basic research investments)/ SIR Scientific Young Independence Research funded projects;
6. All documents, qualifications and publications relevant for the selection procedure (please, see the notice [link](#)).
7. activity as IT security consultant or analyst.

All the schemes of the quoted documentation are available on the website ([link](#)).

**How to submit your application**

Applications should be submitted by the online procedure, available on the notice webpage ([link](#))


The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of his/her application.

The candidate if necessary could access the procedures for updating any data and materials by the link provided by the e-mail, in any case any updates must be made no later than the deadline **17/07/2018, 12.00 noon**.

Please note that the University can be contacted for any support needs by the candidate until 24 hours prior to the deadline.

Please note that in case of an high number of applications and / or weight of the materials loaded by the candidates the system might become slower, Therefore it is suggested not to start the process close to the deadline.

**NB:** the University does not take on responsibility for wrong or late communication of addresses, nor for any communication problem not depending on the University.

**Evaluation**

Up to 100 points, specifically:
For qualifications, publications and possible tests, from 0 to 60;
For interview, from 0 to 40.

**Selection procedure**

The interview will be held in any case **on 18/07/2018, h. 12.00 a.m. (Rome CET)** at the Department of Environmental Sciences, Informatics and Statistics, Ca’ Foscari University of Venice, - Scientific Center, Zeta Building - floor 1- Prof. Riccardo Focardi office, Via Torino, 155 – Mestre (Venice).

The short-list of the candidates admitted to the interview will be available on office Prof. Riccardo Focardi.

Any postponement, will be published on the University’s webpage ([link](#)).

Candidates will be required to demonstrate the following skills, knowledge and expertise:

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<th>The interview:</th>
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<td>- Cryptographic protocols, hardware security, network security, attacks and vulnerabilities of embedded systems.</td>
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<td>- Good knowledge of English</td>
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<td>- Good knowledge of Italian (in case of foreign candidates)</td>
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Candidates living farther than 200 Kms from Venice may ask to hold a telematic interview.

**Information and contacts**

Candidates may find further details about the application process and the research project in the official call published on the following ([link](#))

For further information please contact Prof. Riccardo Focardi - email: focardi@unive.it

Rep. 558/2018

**Prot. 38033/III-13**

Venice, 02/07/2018

Il Direttore del Dipartimento di Scienze Ambientali, Informatica e Statistica  
Prof. Antonio Marcomini