

PhD SCHOLARSHIP APPLICATION FORM 2016

ORGANISATION	TECNALIA RESEARCH & INNOVATION
Business Division	ICT –European Software institute
Business Area	IT Competitiveness
Scholarship location	BIZKAIA, Parque Tecnológico de Bizkaia.
Province/Building	Edificio 700-Derio
Tutor	Dr. Xabier Larrucea

SCHOLARSHIP DESCRIPTION

Title: Cybersecurity and Trust in Critical Infrastructure (CI)

Brief Description of Scholarship:

Cybersecurity is increasingly attracting more and more interest from public administrations, industry and individuals in general. The scholarship purpose is to research and approach cybersecurity in critical (or essential) infrastructures from different and diverse perspectives including SCADAs, sensor networks, Wireless, etc. The grant will cover the following issues related to cybersecurity:

- identity, privacy and trust in Critical Infrastructures (CI)
- cryptography: analysis and assessment of current approaches and cryptographic proposal
- forensics
- risk and threat management in CIs

Cybersecurity is one of the professional profiles most sought after by companies and universities worldwide.

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The cybersecurity research line proposed for this scholarship intends to research existing threats in critical environments and infrastructures. The scholarship is divided into the following phases:

- Firstly, state-of-the-art in cybersecurity study in heterogeneous critical infrastructures will be carried out.
- Secondly, existing shortages and areas for improvement will be identified. Areas for improvement will be the basis of future contributions.
- In third place, a solution for contributions will be implemented.
- Finally, contributions will be validated in an industrial environment.

Requirements:

The PhD candidate shall meet the following requirements:

- Qualification and speciality:
 - Degree in Management and Information Systems Computing Engineering
 - o Degree in Technology and Telecommunications Engineering
 - o Degree in Industrial Electronics and Automatics Engineering
 - o Degree in Industrial Technology Engineering
 - Other engineering degrees.
- Languages: English (Advanced)
- IT skills: Java, C advanced Eclipse. Basic R
- The following will be a plus: knowledge of IT Security Development in Android, IOS.