

International Traineeship Proposal

Host Institution (placement place)	Polytechnic Institute of Beja									
Web	https://www.ipbeja.pt/en/Pages/default.aspx									
Activity (working area)	Computer Science and Information and Communication Technology									
Contacts of the Host Institution (contact person, address, tel and e-mail)	Dr. João Carlos Martins Av. Pedro Soares 7800-295 Beja Portugal (Joao.Martins@ipbeja.pt)									
Number of students	2									
Student Profile (academic area)	Computer Science / Electronics and Computer Engineering									
Duration in months	3 months									
Starting date (preview)	September 2016 February to March 2017									
Host department	Engineering									
Department function / job title	Engineering Department/ researcher									
Description of activities (general program of the training period and main activities)	<p>Design and implementation of an embedded system for data acquisition, based on a low-power micro-controller of the MSP430 family from Texas Instruments, with the corresponding sensor and communication modules.</p> <p>Design and implementation of a web application, to collect and treat data acquired remotely, using the Django/Flask web application framework based on the Python programming language. The Internet of Things (IoT) area encompasses these activities program.</p> <p>The trainees will be supervised by Dr. João Martins and Dr. José Caeiro (http://sepsi.ipbeja.pt).</p>									
Other qualifications or comments	<ul style="list-style-type: none"> • Intercultural and communication skills; • ... • • 									
Computer skills	<table border="1"> <thead> <tr> <th>Skills</th> <th>Level</th> </tr> </thead> <tbody> <tr> <td>1. Computer Programming</td> <td>good</td> </tr> <tr> <td>2. Micro-controllers and Communications Protocols</td> <td>good</td> </tr> <tr> <td>3. Web frameworks</td> <td>good</td> </tr> </tbody> </table>	Skills	Level	1. Computer Programming	good	2. Micro-controllers and Communications Protocols	good	3. Web frameworks	good	
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Comments on the trainee profile	The trainee must have a strong will to learn new skills and a pragmatic sense for its practical application. At the end of the trainee period it is intended to have a working system prototype.									
Monthly remuneration	€									

Accommodation (please select)	<input type="checkbox"/> Accommodation will be provided <input type="checkbox"/> We can assist with finding accommodation <input type="checkbox"/> Student to make own arrangements
Other facilities	Accommodation (depending on the availability at the time)
Contact person at the HOST Institution (name, position, e-mail)	

Applications:

In order to proceed with the application, interested students should send the following documents to João Martins (Joao.Martins@ipbeja.pt) until July 20th or January 30th :

- Letter of Motivation
- Curriculum Vitae (europass model) <http://europass.cedefop.europa.eu/europass>