

PhD position at Centro de Electrónica Industrial of Universidad Politécnica de Madrid

Description of the subject:

This thesis will be developed in the scope of the EU-funded project SCOTT (Secure COnnected Trustable Things). The project intends to improve the features of security, trustability, dependability and autonomy of IoT. UPM tasks are mainly related to railway use cases.

The PhD thesis will improve the state-of the art in aspects like secured communications and QoS for highly reliable applications of WSNs (Vehicle to Vehicle and Vehicle to Infrastructure in the railway domain). The main contributions of this work will be done in the lower layers, mainly from the hardware of the IoT nodes, up to the MAC layer.

The PhD candidate will be part of an active and enthusiastic research team at CEI-UPM, in an international and multidisciplinary environment.

Qualifications required: Candidates should have a Master Degree (MSc or equivalent) in Electrical and/or Electronic Engineering, Computer Engineering, or equivalent. Candidates must have taken courses in the following areas: embedded systems, wireless communications, and electronic design. In addition to this, the applicant must be able to work well in a diverse group, comfortable giving and receiving constructive criticism, and have strong abilities for critical thinking and structured work. The successful candidate will be expected to take an active role in advising undergraduate students. These competencies are as important as the technical qualifications.

Excellent and proven skills in spoken and written English are required. Basic level of Spanish language is welcome.

Application: The application must include the following documents:

- statement (at most 2 pages) of the applicant's motivation for applying for this position,
- a CV, including a transcript of records of the candidate's degrees (translated into English or Spanish)
- two support letters
- other relevant documents

The pre-selected applicants may be interviewed (either in person or remotely).

The salary level corresponds to the average PhD grant in Spain (around 19.000 €/year before taxes).

Send your applications to Teresa Riesgo (teresa.riesgo@upm.es) by September 15th, 2017.

