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POLITÉCNICA "Ingeniamos el futuro"

CAMPUS DE EXCELENCIA INTERNACIONAL

JOB OFFER

"Contrato por obra o servicio con cargo a proyectos de investigación"

Temporary contract for a specific project or service charged to Research projects

Madrid, 21 Diciembre 21 *Day/Month/Year*

1. Profile (select)**:** (●) Research ( ) I+D Management

2. Professional category: POSTGRADUADO NO DOCTOR

3. Task to be develop:
(to be included in the contract)

The work will be part of the research project on quantum communications recently awarded by the Comunidad de Madrid and Ministerio de Ciencia e Innovación and other the associated projects when appropriate. The candidate will work on the integration of Quantum Key Distribution systems and encryptors into production facilities following novel networks paradigm such as Software-Defined Networking and Network Function Virtualization. Specifically, he/she will work on the management ofhigh-level models to control multivendor QKD devices. The candidate will integrate open models and interfaces and will also work on the use cases realtd with security, specially E2E protocols such as IPSec over quantum key infrastructures.

4. Place of work: Center for Computational Simulation - ETSI Informática

5. Address: Universidad Politécnica de Madrid, Campus Montegancedo S/N, Boadilla del Monte, C.P.28660, Madrid

6. Working time: 37,50 h/week (Full-time =37,5 h/week)

7. Annual gross salary(€): €27.500,00

8. Expected duration (months) 30 **9. Expected start date:** 24-01-21

10. Required degree: Master in Computer Science or equivalent

11. Required experience:

We are looking for motivated individuals willing to do research in the integration of quantum communications in telecommunications networks. The job requires good programming skills, preferably in Python and C/C++, as well as previous expertise on Quantum Communications, particularly with QKD devices (CV and DV).

We will highly value the knowledge on classical cryptography and protocols (Eg. IPSec) and novel networks paradigms such as Software Defined Networking and Network Function Virtualization as well a classical and modern network protocols and models like NETCONF/YANG.

The job also requires experience on optical networks and classical and modern cryptographic systems and algorithms as well as the remote system administration, as well as some experience in the development of high Technological Readiness Level software development.

Finally, we expect the candidate to have good communication skills in both Spanish and English, and to be able to work as part of a team as well as on his/her own initiative.

12. Other
(Research group, research line, special conditions, etc., deemed necessary to clarify)

The candidate will get a profound knowledge in the integration and deployment of quantum key distribution networks and will work in a team that combines academic research and industry I+D developments. A good example of this interaction is the past work in the Madrid testbed during the OpenQKD project (openqkd.eu), done in cooperation with Telefónica, the major telecommunication provider in Spain and RedIMadrid, the network provider for all research institutions in the Madrid region.

Applicants must sent a curriculum vitae to: gestion.ccs@upm.es (e-mail)

Deathline for curriculum vitae admission: *Day/Month/Year* 7 January 22 at 23:59 a.m./p.m. hours

NOTE: The job offer must remain published in the noticeboard of the center and/or web,during at least 10 calendar days

Responsible Researcher: MARTIN AYUSO VICENTE - DNI 03082643E

Digitally signed by MARTIN AYUSO VICENTE - DNI 03082643E
Date: 2021.12.23 17:26:59 +01'00'

Signed: Vicente Martín

[Name and surname]

Stamp of the institution

JOB OFFER AND RESOLUTION PUBLISHED in:

Date of publication: Day/Month/Year 23 / 12 / 2021

Date of resolution: Day/Month/Year 12 / 01 / 2022

Noticeboard of the institution: Center for Computational Simulation - ETSI Informática

Web (Please indicate the complete web address and attach a screen copy: www.ccs.upm.es /

There are 5 working days to appeal the resolution from the date of publication of the resolution.