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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 in 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 integration of high-level services based on virtualization of network functions in quantum networks. The candidate will work on their assembly and deployment in a transparent way for the end user. He will also work on the development of classical security and network protocols in QKD networks.

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(€): €26.500,00

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

10. Required degree: Graduate Degree in Management or associated areas.

11. Required experience:

We are looking for a motivated individual willing to do research and developments based on the integration of cryptographic techniques using Quantum Key Distribution Systems on real telecommunications networks. Previous experience on Quantum Communications, particularly with QKD devices (CV and DV) is required.

We expect the candidate to be familiar with modern network paradigms like SDN and NFV as well as classical and quantum cryptographic techniques. Knowledge on transport and security protocols as well as a good level on programing languages like Python, C and C++ are required.

The job also required having some expertise using tools like OpenStack, KVM as well as development frameworks like OpenSSL.

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 17:26:02 +01'00'

Stamp of the institution

Signed: Vicente Martín

[Name and surname]

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.