

Position in Cybersecurity and Blockchain Technologies, Pompeu Fabra University, Spain.

Description

Are you interested in leading solutions for cybersecurity challenges of an emerging technology of great impact in our society as blockchain? Do you want to further your career and attain a PhD in one of the Spain's leading research intensive Universities?

The successful applicant for this Early-stage researcher (ESR) post will be employed for a period of 36 months at the Information and Communication Technologies Department at Pompeu Fabra University, Barcelona, Spain and Nokia Bell-Labs, Paris, France. The position will be funded by BAnDIT, a European Commission Horizon 2020 program for Research and Innovation: Marie Skłodowska-Curie Action (MSCA) Innovative Training Network (ITN).

The main objective of BAnDIT is to provide better instruments for the design of enhanced blockchain technologies that can serve as top class security solutions. This position will be focused on the design of auditing and monitoring systems for the blockchain ecosystem to detect vulnerabilities as well as to predict new vulnerabilities using machine learning tools.

We are looking for highly motivated candidates with a Master Degree on Computer Science or related disciplines, with research interests and knowledge in a combination of cybersecurity and blockchain technologies. Strong programming skills are valuable. Applications are welcomed from international candidates of all nationalities.

Employment is expected to start between October 2019 and March 2020. The ESRs will be hired for three years. The ESR will work towards the PhD degree at Pompeu Fabra University, which will be assessed following successful publication of their research in international journals, relevant to their field.

Eligibility Rules

There are no restrictions on the nationality, but applicants must, at the time of recruitment, not already hold a doctorate degree and must be in the first 4 years (full-time equivalent) of their research careers (measured from the date of obtaining the degree which would entitle you to embark on a PhD). At the time of recruitment, applicants must not have resided or carried out their main activity (work, studies, etc) in Spain for more than 12 months in the three years immediately prior to their recruitment to the BAnDIT project. Compulsory national service and/or short stays such as holidays are not taken into account. All details can be found in Section 3 of this document.

Salary

The Marie Skłodowska-Curie Early Stage Researcher salary is €44634.96 yearly plus allowances in accordance with Marie Curie European regulations. The salary figure is before employer's and employee's deductions for national insurance and taxes.

How to apply

The application must include:

- A statement of purpose, stating your motivation to participate in the project

- CV
- Transcripts of educational degrees obtained, including the grades for each subject taken.
- A one-page synopsis of yourself, your scientific interests, and of your current/previous research work.
- A statement of proficiency of English, preferably by means of an internationally recognized test.
- Two reference letters (or email addresses of 2 referees).
- And a list of any scientific work (if any).

All of these should be sent to phdcybersecurityapplications@upf.edu. Review of applications will start immediately and continue until the position is filled.

About Pompeu Fabra University

Pompeu Fabra University is a public university created in the city of Barcelona in 1990. It has a strong dedication to excellence in research and teaching. It is the top-ranked Spanish university (THE18 position 135 worldwide and 60 in Europe), 11th highest ranked young university worldwide and 5th among young universities in the world that progress most quickly (THE18). The ICT Department at UPF features 25 research groups and has an outstanding track record of active participation in EU projects. It is one of the few Spanish ICT departments that has been awarded the research seal of Excellence Maria de Maeztu for the quality and relevance of its pioneering scientific research, and for having the top ICT research concentration in Spain. With regard to the Department of Economics and Business, it has evolved since UPF's founding in 1990 into a leading center for research and teaching. It ranks among the most outstanding departments in Europe and brings together an international community of more than 20 different nationalities.

About Bell Labs

Nokia Bell Labs is a global leader in creating the technologies at the heart of our connected world. Powered by the research and innovation of Nokia Bell Labs, Nokia serves communications service providers, governments, large enterprises and consumers, with the industry's most complete, end-to-end portfolio of products, services and licensing. From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in virtual reality and digital health, Nokia is shaping the future of technology to transform the human experience. Nokia Bell Labs conducts disruptive research focused on solving the challenges of the new digital era, defined by the contextual connection and interaction of everything and everyone.

Organization

The project is a joint effort between Pompeu Fabra University, who leads the project and Nokia Bell-Labs Paris. Caelum Labs and Rovira i Virgili University also participate in the project.