# Research Opportunities with JRC

Collaborative Doctoral Programme and Trainee Positions

# Collaborative Doctoral Programme

Supervisor from FRI, co-supervised by a JRC researcher

Two fully funded doctoral studentships on:

IOT security: Mentor Dr Veljko Pejović (+ a co-mentor from JRC)

- Machine learning modelling and analysis of sensory data and wireless network traffic, with the goal of deducing activities and interactions in the smart environment, profiling users, inferring private and sensitive information
- Developing countermeasures to the identified security threats
- Devising an automated system for security policy adaptation for smart devices

Biometrics: Mentor Dr Peter Peer (+ a co-mentor from JRC)

- Tackling unconstrained recognition challenges
- Utilising local descriptors and convolutional neural networks
- Focusing on surveillance scenarios and forensic investigations
- Carrying out research related to de-identification and spoofing detection

# Call for Applications

Duration:

- 4 years
  - two years at JRC, Ispra, Italy
  - the remaining time at FRI

Studentship covers:

- Tuition fee
- Salary:
  - 2200€ at JRC+travel and family allowance
  - 1000€ at FRI+ daily travel and lunch allowance

Eligibility:

- Nationality of EU member states or a country associated to the Research Framework Programmes (all Balkan countries, Turky, Israel, etc.)
- Applicant for a FRI Doctoral programme in the 2019/2020 academic year

## Selection Criteria

Candidates will be selected according to:

- Grades (GPA rank) – 20%
- Committee's evaluation – 80%
  - CV
  - Research experience related to cybersecurity, biometrics, mobile computing, machine learning and similar
  - Interview

Two-phase selection process:

- Pre-selection of candidates by UL FRI
- Selection of the final candidates by JRC

**Deadline to apply: August 3rd, 2019**

Apply with the application form and documents described in the call
(soon to be out – follow fri.uni-lj.si!)

# Trainee Positions

Five-month paid research positions at JRC, Ispra, Italy

Two cutting edge topics:

Privacy and Security in Mobile Applications:

- Defining the requirements for the mobile application, with an emphasis on privacy and security
- Designing and identifying the key points of the workflow
- Developing the mobile application for the Android Operating
- Testing the functionalities and logic of the application
- Performance evaluation of the mobile

Internet of Things Security:

- Design and implement a testbed IoT architecture for user authentication
- Identification and collecting the proper data that can contribute to authenticating users in IoT
- Testing machine-learning classifiers on data that contributes to user auth. in IoT
- Implementing a continuous user authentication

# Calls Open Now

Bachelors degree in Computer Sceince Essential!

**Deadline June 12th 2019**

More information
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