



VACANCY NOTICE – 2023-IPR-T2-FGIV-022532

Project Officer - Scientific Research – Image Analytics

Type of contract	Member of the European Commission's contract staff, Function Group IV (article 3b of the Conditions of Employment of Other Servants)
Duration of contract	36 months (renewable up to maximum 6 years)
Area	<i>Image analytics for Internal Security</i>
Place of employment	Ispra (IT)
Indicative basic salary	3877,47 - 5616,29 € per month For more detailed information, please consult: Working Conditions

WE ARE

The [Joint Research Centre \(JRC\)](#) provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.

The current vacancy is with the Cybersecurity and Digital Technologies Unit of the Digital Transformation and Data Directorate, located in Ispra, Italy. The Unit works on risk mitigation, cybersecurity, cybercrime, digital forensics, and innovative digital technology solutions for security, privacy and safety, and on the associated legal and regulatory frameworks, to strengthen the trust of the European citizen in a secure and fair digital European society.

The successful candidate will contribute to the Digital Forensic Investigation Techniques for Law Enforcement project, which addresses all key elements (i.e., identification, localisation and crime characterisation functionalities) required to strengthen the efficiency of criminal investigations and prosecutions in the digital era.

The project provides support to several European Commission policy initiatives and the implementation of the European Security Union policy.

We offer:

- a job in a dynamic, multidisciplinary working environment, with online collaboration and occasional travel for conferences/workshops.
- a unique opportunity to work behind the scenes contributing to the fight against crime and terrorism at European level.
- family-friendly working conditions, located in a beautiful area of Italy with good international access.



WE PROPOSE

The jobholder will contribute to research activities exploring on the development of innovative forensic approaches for multimedia and smartphones to assist the law enforcement communities in the fight against online Child Sexual Abuse, and carrying out the following tasks:

- Study and develop digital forensic techniques related to image analytics, computer vision and signal analysis.
- Design and develop proof-of-concepts and prototypes of multimedia forensic tools for Law Enforcement Agencies such as fingerprinting application of multimedia devices, object detection and recognition, electric network frequency analysis.
- Prepare scientific papers and technical reports.

WE LOOK FOR

We are looking for an Image Analytics Researcher. The successful candidate shall have a PhD degree - or a minimum of 5 years of full-time work experience after the first University degree giving access to doctoral (PhD) studies in the field of: information engineering, machine learning and deep learning techniques, image analytics, and computer vision, or equivalent.

The following qualifications also are required:

- Expertise in image and video analytics techniques (enhancement, restoration and filtering, segmentation, features and descriptors, etc.).
- Expertise in machine learning and deep learning techniques.
- Ability to work in a multi-national team.
- Relevant publications in peer-reviewed conferences and journals.
- Good level (B2) of spoken and written English.

The following qualifications are an asset:

- Experience in Multimedia Forensics and Analysis.
- Experience with statistical classifiers and data analysis.
- Experience in pattern recognition, transfer and reinforcement learning.
- Experience in at least one of the following programming languages: C/C++/C#, Python, MATLAB.

HOW TO APPLY

If you are **already on a valid CAST FG IV reserve list**, or you **have already applied to one of the calls below**, you can directly submit your application at <http://recruitment.jrc.ec.europa.eu/?type=AX>.

If not, before applying to this position, **you must register** for one of the two following:

- the [Call for Expressions of Interest | EU Careers \(europa.eu\)](#) (CAST Permanent FG IV), which is used by a wide range of organisations (institutions, bodies, offices and agencies of the European Union), or
- the [specialised call for researchers](#) (JRC Call COM/1/2015/GFIV – Research), which is mainly used by the JRC.



Note that each of the calls above has **different minimum eligibility requirements and different selection tests.**

The JRC cultivates a workplace based on respect for other people and the environment, and embraces non-discriminatory practices and equality of opportunity. In case of equal merit, preference will be given to the gender in minority.