



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2022-IPR-E3-FGIV-019770

**FG IV - Project Officer - Scientific Research –
Multimedia Forensics: video analytics researcher**

POSITION FOR:

Member of the contract staff FGIV – art. 3b of the Conditions of Employment of Other Servants
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1962R0031:20110101:EN:PDF>

WE ARE:

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre (JRC) is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <https://ec.europa.eu/jrc/>

The current vacancy is in the Cyber and Digital Citizen Security Unit of the Space Security and Migration Directorate, located in Ispra, Italy. The mission of the Unit is to strengthen trust and security of the European Citizen in a sustainable and inclusive ICT-based European society by scientific research on how emerging Information and Communication Technologies will impact the security and privacy of citizens' daily life. The unit works on risk mitigation, cyber security, cybercrime, data protection, privacy and on the associated legal and regulatory frameworks.

WE PROPOSE:

A Contract Agent position FG IV in Ispra, Italy. The successful candidate will contribute to the research activities of the Cyber and Digital Citizens' Security Unit by exploring innovative digital forensic technologies to support the fight against organised crimes.

This position offers a unique opportunity to conduct scientific and technical studies in the area of cybersecurity and fight against cyber-dependent crimes to enhance EU law enforcement capabilities in investigations and support the EU Security Union Strategy.

The successful candidate will focus 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.

He/She will carry out of the following tasks:

- Study and develop multimedia forensic techniques related to image and video 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.
- Contribute to and support the scientific organisation of workshops with community, industry and academic stakeholders.
- Prepare scientific papers and technical reports.

WE LOOK FOR:

The successful candidate shall have a PhD degree - or a minimum of 5 years of full-time research or working 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.

Essential Skills:

- Ability to work in a multilingual and multicultural environment
- English language, at least C1 level both oral and written
- Ability to learn new technologies and skills in a short period of time

Solid knowledge and experience are required in:

- Image and video analytics techniques (enhancement, restoration and filtering, segmentation, features and descriptors, etc.)
- Machine learning and deep learning techniques
- Relevant publications in peer-reviewed conferences and journals

The following knowledge or experience are an asset:

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

INDICATIVE CONTRACT'S DURATION:

36 months initial contract with possible renewals up to maximum 6 years.

PLACE OF WORK:

Ispra (IT)

ELIGIBILITY CRITERIA:

Candidates for this contract agent post shall:

– (i) have passed a valid EPSO CAST selection procedure;

or

– (ii) be registered in the EPSO Permanent CAST https://epso.europa.eu/documents/2240_en

or

- (iii) be registered in the specialised call for researchers <https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-iv-researchers> (used mainly by the JRC).

With a valid application number to one of the above, you may then apply for this specific vacancy at JRC through: <http://recruitment.jrc.ec.europa.eu/?type=AX>.

RECRUITMENT POLICY:

The Joint Research Centre

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