



2018-IPR-E3-FGIV-010605

**FG IV - Project Officer -
Artificial Intelligence and Cybersecurity
Scientist**

Position for:

**FG IV –
Project Officer – Scientific
Research**

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre 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 with the Cyber & Digital Citizens' Security Unit of the Directorate for Space, Security and Migration, 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 citizens' daily life. In the balance between European security needs and fundamental citizen rights, the unit works on risk mitigation, on cyber security, data protection, privacy and other ethical considerations, and on the associated legal and regulatory frameworks.

We propose a Contractual Agent position FG IV in Ispra, Italy. The successful candidate will contribute to the activities of the Digital Citizen Security Unit in the field of Artificial Intelligence (AI) and Cybersecurity, in particular on the topic of adversarial machine learning (to enable the safe adoption of machine learning techniques in adversarial settings), explainable AI and applications of AI in cybersecurity.

He/she will carry out research on the robustness of AI algorithms against malicious attacks and on the explainability of AI, in the context of the interplay between AI and cybersecurity and data protection. Moreover He/she will also conduct scientific and technical assignments in the practical application of AI on cybersecurity studies and analysis (e.g. malware classification, cyber-attack detection etc.). The target will be that of contributing to the progress of these area of research, contributing at the same time to support the development of new European policies with evidences and data resulting from laboratory and analysis campaigns.

The successful candidate will carry out the following tasks:

- research in the field of adversarial machine learning;
- research on the explainability of AI algorithms;
- Performance of laboratory experimental activities for the evaluation of machine learning algorithms;
- Development of machine learning based solutions to support other experimental activities in the field of cybersecurity, privacy and data protection;
- Preparation of scientific papers and technical reports.

Qualifications:

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

	<p>the first University degree giving access to doctoral (PhD) studies in the field of: Information and Communication Technologies, Mathematics, Computer Science, Engineering or equivalent.</p> <p>The following qualifications are also required:</p> <ul style="list-style-type: none"> • Good knowledge and research experience in machine learning; • Practical experience in the study and application of deep learning and/or reinforcement learning; • Ability to work in a multi-national team; • Good level of spoken and written English (B2). <p>The following qualifications are an asset:</p> <ul style="list-style-type: none"> • Good knowledge and research experience in adversarial machine learning; • Good knowledge and research experience in explainability of AI algorithms; • Knowledge of cybersecurity, privacy and data protection; • Relevant publications in peer-reviewed conferences and journals; • Good knowledge of software development involving the usage of machine learning algorithms in HPC environments.
Directorate Unit	<p>Space, Security and Migration Cyber and Digital Citizens' Security</p> <p>Further information: https://ec.europa.eu/jrc/</p>
Indicative duration	<p>36 months initial contract with possible renewals up to maximum 6 years</p>
JRC Site Country	<p>Ispra</p> <p>Italy</p>
Rules and eligibility	<p>The candidate must be on any valid EPSO reserve list for Function Group IV contract staff.</p> <p>Applicants to the following Calls for expression of interest can also be considered:</p> <ol style="list-style-type: none"> 1. CAST Permanent - EPSO has launched in January 2017 an open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. Details available at the link below: https://epso.europa.eu/documents/2240_en 2. Call COM/1/2015/GFIV – Research - The JRC has launched in January 2015 a permanent call for researchers FG IV. Details available at the link below: https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers <p>Auxiliary contract staff: https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</p> <p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of</p>

	<p>contract, including any period under renewal, shall not exceed 6 years.</p>
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Please note that due to the high number of applications received only shortlisted candidates will be contacted.