



2021-IPR-E-000-017388

AI cybersecurity Trainee

<p>Position for:</p> <p>Trainee</p>	<p>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.</p> <p>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/</p> <p>The current vacancy is with the Cyber and Digital Citizens' Security Unit, 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 on 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.</p> <p><u>Objective of the stay:</u></p> <p>The selected candidate will assist in the unit's project CRAID (Cybersecurity Research on AI and Data Protection). In particular, he/she will support research on the application of AI to cybersecurity controls, particularly the application of deep-learning techniques to network intrusion detection and the evaluation of their robustness.</p> <p><u>Tasks to be carried out:</u></p> <p>The tasks to be carried out under supervision of traineeship adviser will include:</p> <ul style="list-style-type: none">• Assist in the compilation and analysis of datasets• Assist in the performance and robustness evaluation of AI models for the purposes of malware detection and network intrusion detection.
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	<ul style="list-style-type: none"> Contribute to the research on novel applications of deep learning techniques for network intrusion detection and the publication of results. <p><u>Qualifications:</u></p> <p><u>Essential</u></p> <ul style="list-style-type: none"> A Computer Science, Computer Engineering or similar degree. Experience in coding with Python in machine learning applications.(using pytorch or tensorflow) Experience in network intrusion detection and/or malware detection applications Excellent command of the English language, both oral and written (level B2). <p><u>Advantage</u></p> <ul style="list-style-type: none"> A good understanding of the application of deep learning based models in intrusion detection and malware detection application. <p>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC: https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Unit /Directorate	Space, Security and Migration Cyber and Digital Citizens' Security Further information: https://ec.europa.eu/jrc/
Duration	5 months
Preferred starting date	As soon as possible, from 1 st September 2021
JRC Site	Ispra
Country	Italy
JRC contact details	For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu