EUROPEAN COMMISSION
DIRECTORATE-GENERAL HUMAN RESOURCES AND SECURITY
Directorate HR.AMC –Account management Centre
HR.DDG. AMC 8

2018-IPR-E-000-9685 **HPC Solution for Digital Forensics**

Position for: Trainee	As the science and knowledge service of the Commission, the mission of 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: http://www.jrc.ec.europa.eu **Short description of activity:** 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 affect 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. Objective of the stay: The selected candidate will assist in the work for the unit's digital forensic lab, aiming at exploring new technologies in support of building strong cybersecurity for the EU and in particular its deterrence part on fight against organized crime. The main objective of the stay will be to contribute to the development of High-Performance Computing solutions for digital forensics. Tasks to be carried out: The tasks to be carried out, under supervision of traineeship adviser, will include: • Support the performance assessment of HPC-based solutions for specific digital forensics applications against end-user

	requirements; • Prepare technical specification of HPC-based solutions. • Contribute to the development the solutions and to the preparation of the related documentation; • Conduct series of tests to evaluate the performance of the solution as well as its stability. The results may lead to peer-reviewed scientific publication(s). **Qualifications:** **Essential:** • Solid knowledge of programming language (Java, C, php, python) • Solid knowledge in informatics, computer network • Good knowledge of English language, both oral and written (B2 level) **Advantage.** • Familiar with the OpenCL / CUDA / NCCL V.2 framework • Capable of developing Graphical User Interface • Development skills under GNU/Linux • Be enrolled in a PhD university program **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
Unit /Directorate	Space, Security and Migration Cyber and Digital Citizens' Security Further information: https://ec.europa.eu/jrc/
Indicative duration **Preferred starting date**	5 months As soon as possible
JRC Site **Country**	Ispra Italy
JRC contact details	**For any technical problems with your application, please contact:** HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu