Young Graduate Trainee in Cyber Security

Job Req ID: 14769
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Vacancy Type: Young Graduate Trainee
Date Posted: 14 June 2022
Young Graduate Opportunity in the Directorate of Technology, Engineering and Quality

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. We therefore welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

This post is classified F1.

Location
ESTEC, Noordwijk, Netherlands

Our team and mission
The Systems Security Engineering Section reports to the Head of the Radio Frequency Systems Technology Division in the Electrical Department. In full compliance with the ESA Security Framework, it covers security engineering processes, techniques and technologies for the End-to End (E2E) security of systems, the subsystem, elements and equipment contributing to or implementing specific detection/mitigation and protection measures, the analysis and methodology for vulnerability and risk assessments, and accreditation, certification processes and standards, including system design tools and equipment.

You are encouraged to visit the ESA website: http://www.esa.int

Field(s) of activity/research for the traineeship
You will collaborate with an interdisciplinary team working on all aspects of systems security engineering, including ground segments, spacecraft, and communication links. You will work on aspects of modelling and security architecture, following public standards. You will also do hands-on work on a cyber-lab, participating in the setting up of vulnerability assessment activities, the security assessment of protocol implementations, etc., leading (optionally) to the authoring of tools/scripts that provide a system security audit for typical COTS/OSS and security assessment of custom protocols.

You will be mentored by experienced professionals and will also be supported by other cyber/security experts in the team, who work closely with them.

Technical competencies
Knowledge of relevant technical domains
Relevant experience gained during internships/project work
Breadth of exposure coming from past and/or current research/activities
Knowledge of ESA and its programmes/projects

Behavioural competencies
Result Orientation
Operational Efficiency

Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

You should have just completed or be in the final year of your Master's degree in computer science, with good knowledge of cybersecurity.

Additional requirements

Programming skills (Python; other programming languages) will be an asset.
Very good knowledge of Linux OS.
Very good knowledge of TCP/IP stack and protocols.
Hands-on experience of penetration testing/security assessment tools is a plus.

You should have good interpersonal and communication skills and should be able to work in a multi-cultural environment, both independently and as part of a team.
The working languages of the Agency are English and French. A good knowledge of one of these is required. Knowledge of another Member State language would be an asset.
During the interview motivation and overall professional perspective/career goals will also be explored.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the ESA Competency Framework.

For further information on the Young Graduate Programme please visit: Young Graduate Programme and FAQ Young Graduate Programme

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us email contact.human.resources@esa.int.

Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, and the United Kingdom. Nationals from Latvia, Lithuania, and Slovenia, as Associate Member States, or Canada as a Cooperating State, can apply as well as those from Bulgaria, Cyprus and Slovakia as European Cooperating States (ECS).
According to the ESA Convention, the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States*. When short-listing for an interview, priority will first be given to candidates from under-represented or balanced Member
States*. (https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf)
In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment.
*Member States, Associate Members or Cooperating States.