Training Opportunity for Luxembourgish Trainees

Reference	Title	Duty Station
LU-2023-CSC-PM	**Cyber Security Engineering**	**ESTEC, Noordwijk, The Netherlands**

Overview of the mission:

The Directorate of Telecommunications and Integrated Applications supports innovation to boost the competitiveness of European industry in the global space market. It works a wide range of activities, including space-based technologies, systems, products for telecommunications development and the down-to-earth application of space-based services. These activities require engagement with a wide range of industrial, academic, and institutional partners.

Currently, Europe is developing its capacity to put in place secure connectivity systems that will underpin most of the key value chains of the future in the areas of transportation, health, energy, and education. The systems need to be secure and resilient to cyber-attack to allow connected vehicles, smartphones and connected devices, supercomputers, and edge computers to operate safe and secure manner.

Under the direct authority of the Information Security Officer, you will contribute to the application of the ESA Security Framework and related processes to all of the Directorate activities concerned in order to achieve the required level of security for each individual discipline.

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

Overview of the field of activity proposed:

As a LuxYGT, you will participate in the development of security within the Directorate of Telecommunications and Integrated Applications.

You will assist the Information Security Officer and Security Engineers in:

- supporting the security awareness training/campaign within the Directorate;
- participating in security engineering activities on projects (e.g. security risk assessments, identification of security requirements, etc);
- supporting the safety and security design and implementation phases of satellite systems;
- participating in secure end-to-end system evaluation processes relevant to new quantum, cloud and AI technologies;
- contributing to and supporting the Directorate's participation in the European Cloud Initiative;
- supporting the implementation of cyber security across the Directorate;
- developing reports, dashboards and presentations across the Directorate to keep ESA/Directorate management informed;

- contributing to reports on cyber security threats/attacks on the Agency.

Required education and skills:

- You should have just completed or be in the final year of your master's degree in materials science, chemical engineering, or aerospace engineering.

- Good interpersonal and communication skills

- Ability to work in a multi-cultural environment, both independently and as part of a team

- Fluency in English and/or French, the working languages of the Agency