EUROPEAN SPACE AGENCY

Digital Signal Processing Engineer

Job Req ID: 12963
Closing Date: 24 November 2021
Publication: Internal & External
Vacancy Type: Permanent
Date Posted: 27 October 2021

Description
Digital Signal Processing Engineer responsible for the ESA ground station modems. T position is in the Station Subsystems & Configuration Control Section, Ground Stat Engineering Division, Ground Systems Engineering & Innovation Department, Directorate Operations.

Duties
If appointed to this role, you will report to the Head of the Station Subsystems & Configurat Control Section and, your work will include the the following tasks:

- Ground station modems: driving the design, industrial development, testing and validati supporting deployment and helping to resolve operational problems;
- Upgrading and managing the addtion of the new functionalities to the ground stat modems, according to space mission needs;
- Supporting Galileo modem development;
- Performing new ground station back-end development so as to move towards a softwa defined radio system;
- Providing optical modem development;
- Supporting technical standardisation in the domain of space communication (modulati ranging and coding) for international standardisation (CCSDS);
- Supporting the definition of future communication solutions and associated technolo developments in close cooperation within ESA, as well as with industry and internatio partners.

Technical competencies
Digital signal processing (e.g. FPGA, receiver algorithms)
In-depth knowledge of communication systems and modems (RF)
Design, implementation and validation of modems
Software-defined radio systems
Leading technology development & innovation activities
Experience in managing industrial contracts

Behavioural competencies
Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management

A Master's degree in telecommunication engineering, electrical engineering or an equivalent field is required.

Additional requirements
A good background in space communication systems is desirable;
Knowledge of optical communication systems is an asset;
End-to-end project management experience of complex technical systems, from design deployment.
You must be eligible to obtain security clearance from your national security authority.