



HE Space is a successful international space company. For nearly 40 years, we have been supporting our customers with qualified experts in the field of engineering, science and administration. We are currently looking for a Technology & Frequency Management Engineer to support our customer in the Netherlands.

Technology & Frequency Management Engineer

Key Tasks and Responsibilities

Within the Future Missions and Instruments Division (EOP-8M), the Technology Coordination and Frequency Management Section (EOP-8MT) is responsible for two following main tasks:

- First, the identification of technology requirements for future Earth Observation (EO) missions. A solid collaboration with the other sections of the division and with other divisions in the EOP directorate and ESA's technical directorate is essential for this work. The nature of the work requires a wide knowledge in engineering disciplines with a natural inclination for learning and understanding new technologies in connection to EO space systems;
- Second, the analysis and monitoring of the evolution of frequency needs for EO missions, including early concepts and potential interference conflicts with other communication services sharing the spectrum.

You will provide engineering support in the area of EO Technology Development for the following tasks:

- Support the identification of the technology requirements for future Earth observations missions, covering the whole spectrum (mainly platform and ground stations network, but also support to optical and RF instruments);
- Provide support to technology developments for future EO missions, in particular for the standardisation of the platform and for the communications with the ground segment;
- Initiate, conduct internal studies and support the review of the results of industrial activities and in the area of technology development and modelling of end-to-end system (e.g. data flow, technical budgets) or on-board sub-system aspects;
- Support the definition and monitoring of missions under preparation through, e.g. participation to reviews, assessment of industrial results, evaluation of proposals in reply to calls, including sub-system performance analyses or technology maturity aspects;
- Support the EO technology observatory function outside the EOP Directorate (e.g. ESA Technology Harmonisation, ARTES), and also outside ESA (e.g. other space agencies, Horizon Europe in the EC, commercial initiatives under NewSpace, and the potential spin-in from non-space sectors);
- Support the interaction within ESA and also with ESA's Member States on EO future technologies e.g. through dedicated information days;
- Building up relevant IT repositories with information about technology developments or new mission concepts of relevance to Earth Observation.

Skills & Experience

You will have the following qualifications and relevant experience:

- Master's degree in Engineering with relevant background and experience in space projects and associated technology developments;
- Several years of experience in the development of advanced on-board system and sub-technologies for space applications, ideally in the EO domain;
- Experience in Space Projects for Earth Observation;
- Experience with System (Performance) Simulation and End-to-End Satellite Data Flow, including data processing, is desirable;
- Good knowledge of remote sensing techniques used in Earth Observation missions;
- Experience in Matlab, STK or similar tools;
- Pro-active in organising and building up electronic means to share the technology knowledge with larger groups;
- Fluency in English is mandatory; knowledge of another European language is an advantage.

This job is located in Noordwijk. We welcome applicants who are available as soon as possible.

If you think you have what it takes for this job, please send your CV together with a letter of motivation (both in English and in Word) to Chiara Grossardi, by clicking on the button "Apply for this job" quoting job **NL-4549** before **24-Jun-21**.

An exciting and dynamic international working environment awaits you!



HE Space recruiting for ESA