

5G/6G Implementation Manager

Job Req ID: 12506

Closing Date: 29 July 2021

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 30 June 2021

Vacancy in the Directorate of Telecommunications and Integrated Applications.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. For this purpose, we 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 A2-A4 on the Coordinated Organisations' salary scale.

Location

ECSAT, Harwell, United Kingdom

Description

You will report to the 5G/6G SPL Manager and be responsible for strategic implementation of the 5G/6G Strategic Programme Line.

This will cover the strategy, coordination and implementation of development programmes involving converged satellite and terrestrial 5G/6G networks, the scouting of new industrial business partners interested in entering into partnership with ESA or benefiting from ESA support in initiating end-to-end satellite systems with a high degree of innovation, in terms of technologies, services and business models, related to the convergence of 5G/6G networks. The Implementation Manager will be part of a team focused on Future Programmes Acquisition, aimed at initiating new satellite and 5G development programmes, and involved in areas such as a new satellite constellation and Artificial Intelligence applications for satellite systems.

Duties

- Coordinating implementation of the set of activities and projects under the 5G/6G Strategic Programme Line.
- Managing the projects successfully within the stated objectives, schedule and costs.
- Preparing action plans and roadmap development in close cooperation with relevant stakeholders (e.g. satcom and terrestrial industry) to foster the use of innovative satcom solutions, including 5G.
- Coordinating the preparation of work plans, monitoring their implementation and taking corrective action to ensure their successful execution.
- Assessing the business environment evolution for satcom, terrestrial telecom and space and the potential impact on key satcom stakeholders.
- Identifying and justifying selected business partners to focus on (as a combination of demand/partner pull and tech/industry push) using the key criteria of relevance and impact on industry competitiveness and introduction of innovation.
- Analysing opportunities with the selected business partners, in some of the focus areas identified in business exploration (5G, satellite constellations, AI). The analysis must be based on structured action plans and result in justified roadmaps leading to further business consolidation actions.

- Promoting the use of satellite in 5G/6G and attracting stakeholders to collaborate with ESA in implementing and demonstrating integrated end-to-end 5G/6G systems and services.
- Contributing to the 6G vision and to how satellite telecommunications can be part of it, including producing and delivering a 6G roadmap which includes satellite networks.
- Monitoring and assessing the need and commercial potential for future satellite telecommunication missions and systems.
- Carrying out analysis, definition, initiation and management of industrial activities associated with new telecommunication satellite system projects.
- Defining all the end-to-end elements associated with the mission/system architecture of new telecommunication satellite projects/systems.
- Performing trade-offs between different concepts/technologies to optimise the end-to-end system.
- Managing projects financially in line with the stated cost-at-completion and annual budget forecasts.
- Driving the implementation and coordination of the various activities included in the 5G/6G SPL work plan.
- Establishing and maintaining a project risk register.
- Providing regular technical, programmatic and financial reporting to ESA management and national delegations.

Technical competencies

Knowledge of industrial costs and schedule aspects

Complex project management and project risk management processes

Knowledge of ESA and industrial development and verification processes

Knowledge of 4G/5G core architectures and mobile networks protocols, 5G RAN and O-RAN/vRAN/cloudRAN

Design and development of satellite payload, platform or telecommunication end-to-end system engineering

Business development

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in engineering or physics is required for this post. An additional business or marketing degree (MBA or other relevant qualification) will be considered an asset.

Additional requirements

You have at least 10 years' relevant work experience in a combination of technical management and business development.

You have proven project management experience of complex programmes and have demonstrated industrial experience in satellite telecommunication systems or cellular telecommunication systems, or other relevant technical fields (e.g. 5G, AI).

You are able to interact at top management levels with potential new business partners.

You will be expected to travel regularly to industrial premises and technical and business events.

You will demonstrate strong leadership capabilities and the ability to work effectively in an international team environment. You are also able to apply analytical and sound judgement to resolving complex problems and making decisions, and to sum up complex information, and have good communication skills, both verbal and written.

Direct experience of working with a commercial telecommunications industry manufacturer or operator will be a distinct advantage. Experience in Public Private Partnership Projects would be an asset.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

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.

The Agency may require applicants to undergo selection tests.

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, the United Kingdom and Canada, Latvia, Lithuania and Slovenia.

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 internal candidates and secondly to external candidates from under-represented 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.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.

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