

Space Applications Services NV/SA is a dynamic international company with 30 years experience in performing and supporting system and software engineering for the European Space Agency (ESA), National Space Agencies and the aerospace industry.

We work on international manned & unmanned spacecraft programmes, earth observation, science, exploration, communications and related technology development. We are looking for an:

Advanced Missions Concept and Technology Operations Engineer (M/F) (MTE-SERV-OPS-2017-11-ESOC-005)

The successful candidate will be based at ESOC (European Space Operations Centre, Darmstadt, Germany).

ESOC's responsibilities include controlling spacecraft in orbit, managing ESA's global tracking station network, and design and build the systems on the ground that support missions in space. Within ESOC, the Advanced Mission Concepts and Technology Operations function facilitates the introduction of innovative operations concepts and associated functions and performance with enabling new technologies. The successful candidate will help ESOC getting ready for future ESA missions with efficient and effective technologies for operations, by identifying and validating either prototypes or applications based on suitable advanced technologies – such as artificial intelligence and data analytics.

Tasks and Responsibilities

- Research work on new operational concepts and produce assessment reports:
 - Elicitate and analyse needs and requirements from current missions and future missions.
 - Identify and analyse innovative (evolutionary and disruptive) operations concepts.
 - Map the concepts to suitable technologies.
 - Maintain a technology roadmap related to long term evolution of space missions concepts and associated operations concepts mainly but not limited to the artificial intelligence and data analytics technology branches.
 - Spin-in of interesting innovative technology.
- Operational validation of innovative algorithms, models, languages, methods and techniques. This can include procurement of hardware and/or off-the-shelf software
- Support the evolution of external studies (GSP, TRP, GSTP...) along the entire lifecycle as well as during the study preparation and after completion of the external study:
 - Identification of new study subject and study feasibility assessment.
 - Requirements elicitation and assessment.
 - Services to assess technical progress of the study (e.g., participating to study reviews and progress meetings, acceptance testing & validation).
 - Customer / user services.
- Technical and operation support to consultancy requests from both internal entities as well as external parties.
- Provision technical supervision of trainees, including young graduate trainees, national scheme trainees, students and PhD students.
- Support the knowledge retention and dissemination through different channels and means of achieved results in research and technology as well as in tools and applications and their operational use, e.g. through presentations and papers.

Qualifications and Experience

- A Master's or Bachelor's degree in (aerospace) engineering or computer science.
- Familiarity with Spacecraft Engineering, Operations and with the ESOC environment.
- Proven experience with OPS-OSA systems (eg. MUST, DrMUST, MUSE, Novelty Detection, APSI, TECO).
- The following knowledge will be considered as additional assets:
 - Knowledge and requirements elicitation (vis a vis ESOCs operations engineering).
 - Artificial Intelligence, Data Analytics, Software Engineering/Development and Methods.
 - Robotics, Autonomy, and Automation.

Candidates will have the following skills

- Ability to cope with pressure, summarise and draw conclusions.
- Ability to work in distributed international teams, with proactiveness.
- Excellent organization and communication skills.
- Fluency in English (written and spoken).

What Do We Offer?

- Working for a growing company, with offices located in Belgium, the Netherlands and the USA.
- Support our customer (ESA) on-site, at the heart of ESA's Operations Centre.
- A professional, pleasant atmosphere with motivated staff, where autonomy and initiatives are encouraged.
- An interesting remuneration package with a relocation allowance, if applicable.
- A full time employment position.
Preference will be given to candidates eligible to work in the European Union or in possession of a European Blue Card for two or more years. We are looking for someone to start as of **2nd January 2018**.

How To Apply?

- Click on the "Apply" link for this position on our website: <https://careers.spaceapplications.com/>.
- Include your CV and Motivation Letter (both in English) and send to jobs@spaceapplications.com.
For this position the contact person is **Mrs. Saliha Klai**.

The application deadline is **27th November 2017**.