

# Job Title: Galileo Search and Rescue Engineer

Req ID 8763 - Posted 28/08/2019



## EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Navigation.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

### Post

#### Galileo Search and Rescue Engineer

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

### Location

ESTEC, Noordwijk, The Netherlands

### Description

Galileo Search and Rescue Engineer, Galileo System Engineering Unit, Galileo System Procurement Service, Galileo System Office, Galileo Programme Department, Directorate of Navigation.

The Search and Rescue (SAR) mission is one of Galileo's core services, which is provided as the European contribution to the international SAR effort by satellite-aided tracking from medium Earth orbit, under the Cospas-Sarsat set-up.

SAR/Galileo is currently the foremost contributor to the Cospas-Sarsat's MEOSAR system, providing two SAR capabilities: the forward link alert service and the return link automatic acknowledgement service, with the prospect of continuing to drive MEOSAR evolution over the coming decade.

### Duties

The postholder will be responsible for SAR tasks for Galileo (FOC, Transition and Second Generation), driving SAR-related activities under the programme and coordinating with external entities, ensuring that the space and ground segments fulfil Galileo SAR mission requirements and that Galileo remains the leading contributor to Cospas-Sarsat MEOSAR.

The postholder is responsible for SAR-related activities under the programme, from the design of the evolution space segment SAR Transponder system to its global deployment. The postholder will ensure that ESA's role as SAR/Galileo system architect and design authority is maintained over the course of Galileo evolution.

Within the project boundaries and constraints, responsibilities include:

- FOC deployment completion, ensuring the next batch of space segment SAR repeaters is deployed successfully in line with Cospas-Sarsat requirements; ensuring completion of the return link system and successful commencement of service roll-out.
- SAR/Galileo evolution through:
  - the design and development of the Galileo Transition system, including future evolution to second-generation transponders;
  - defining the evolution SAR system and segment requirements;
  - prototyping the evolution SAR system and transponder, managing MEOSAR test bed activities;
  - ensuring technical synergy and coordination of SAR activities with the FOC and Evolution programmes;
  - contributing to investigation and closure of AR and NCR related to area of expertise;
  - procuring/maintaining tools to perform analysis needed to accomplish the above tasks;
  - designing and developing future systems building on Galileo/NAV expertise and know-how, (i.e. emergency warning system).

The postholder will cooperate closely with other team members, particularly those responsible for satellite payload and ground segment procurement. He/she will represent ESA in SAR organisations and standardisation bodies as the technical reference for SAR/Galileo.

Functional support will be provided by engineers from the Technical Directorate and industry.

## Technical competencies

Radio frequency, modulation and coding techniques  
Digital Signal Processing  
Experience in managing technical and scientific teams  
Multidisciplinary knowledge of space and ground telecommunication systems  
Work with industry and management of large contracts for space segment technology and product development

## Behavioural competencies

Communication  
Problem Solving  
Knowledge of ESA technology programmes and the organisation of R&D activities  
Acting as a role model  
Experience in leading, motivating and developing teams

## Education

Master's degree in engineering.

## Additional requirements

Applicants should be able to lead and motivate a team of engineers and organise their activities. They should be able to handle pressure and conflict as may typically occur in a project team. They should be results-oriented, able to set priorities, capable of presenting practical solutions both verbally and in writing.

Candidates should have good leadership, interpersonal and communication skills. They should have the ability to work autonomously, effectively and cooperatively in a diverse, international team environment, defining and implementing solutions in line with team and individual objectives and project deadlines. They should also have good technical, analytical, organisational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.

## 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.

### **The closing date for applications is 25 September 2019.**

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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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 and Slovenia and in addition of Member States of the European Union not members of ESA: Bulgaria, Croatia, Cyprus, Latvia, Lithuania, Malta, and Slovakia.

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. (<http://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.