

# Job Title: Optoelectronics Engineer

Job Requisition ID 10796 - Posted 07/10/2020



## EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering and Quality.

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 Optoelectronics Engineer

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

**Location**  
ESTEC, Noordwijk, The Netherlands

### Description

Optoelectronics Engineer in the Optoelectronic Section, Mechatronics and Optics Division, Mechanical Department, Directorate of Technology, Engineering and Quality.

The Optoelectronics Section provides functional support to ESA projects and carries out technological research (R&D) in the field of optoelectronic device technologies and applications. In particular, the Optoelectronics Section deals with the specification, development and characterisation of photonic components, subsystems and active optical instruments, such as detectors and lasers operating in the UV to FIR wavelength ranges, fibre-optic sensors, lidars, optical communication systems and quantum technologies.

### Duties

Reporting to the Head of Section and within the technical fields described above, your main tasks and responsibilities will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the fields of lasers and optical communications throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- identifying critical development problems and assisting in their resolution;
- contributing to the definition of technology development requirements and work plans for the Agency's technology programmes;
- defining, initiating and managing R&D activities covering both long- and short-term needs;
- fostering new application areas for multidisciplinary activities, placing emphasis on innovative concepts, cutting-edge technologies and system architectures;
- laboratory activities, as required;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

Your duties may also include supporting other activities within your field of competence.

### Technical competencies

General background and specific experience in the technical domains covered by the position

Hands-on hardware experience

Experience in the development and verification of space hardware

Experience with the design, development and application of relevant tools and methods

Project support experience in a relevant domain

Experience with laboratory and field testing of relevant technical equipment

Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)

## Behavioural competencies

Communication  
Teamwork  
Innovation & Creativity  
Problem Solving  
Planning & Organisation  
Continuous Learning

## Education

A Master's degree or equivalent qualification in optoelectronics engineering is required. Preference will be given to those applicants with a PhD.

## Additional requirements

At least five years' experience in optoelectronics engineering.  
Knowledge in optical communications, feeder links and laser technologies is 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.

### **The closing date for applications is 04 November 2020.**

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, Latvia 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.  
(<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.