**EUROPEAN SPACE AGENCY**

# Junior Professional in Computing Infrastructure

**Job Req ID:** 14244
**Closing Date:** 18 March 2022
**Publication:** Internal & External
**Vacancy Type:** Junior Professional
**Date Posted:** 18 February 2022

Vacancy in the Directorate of Directorate of Internal Services

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 part of ESA's Junior Professional Programme. We are looking for enthusiastic candidates with a Master's degree and 2-3 years' experience to join ESA for an initial three year period. During this time, you will actively work and learn on the job and will benefit from interesting development opportunities in order to prepare for a permanent position at ESA the end of your Junior Professional assignment.

The selection process for the first cohort of Junior Professionals will take place during Spring 2022, successful candidates are expected to start work during the period June-October 2022.

This post is for an initial limited duration of three years and is classified A1 on the Coordinated Organisations' salary scale.

**Location**
ESRIN, Frascati, Italy or ESTEC, Noordwijk, Netherlands
You may be required to relocate temporarily to other ESA establishments or another location for development assignments.

**Description**
ESA's IT department offers computing infrastructure services to all of ESA in the form of private cloud services, complemented with public cloud. Of course, needs for computing infrastructure services are continuously evolving, and recent use cases involving satellite image processing, AI and machine learning algorithms clearly benefit from specific hardware accelerators such as GPUs.

ESA as an agency is focusing on innovation in order to leverage the massive amounts of data generated by our missions to the maximum extent, for instance in the framework of digital twins.

To support the evolution of Computing Infrastructure Services, esait is currently seeking a Junior Professional who is passionate and knowledgeable about the possibilities, challenges and limitations of the latest computing algorithms to help ESA define and implement optimal high-throughput and/or high-performance computing solutions.

**Duties**
During the initial months at ESA, you will learn about the private and public cloud services
offered by the IT Department. In parallel, you will interact with the various technical teams
the Agency who have use cases for high-end computing and might have already
implemented their own dedicated solutions.

You will be able to participate in ESA's HPC project, where you will map the different
computational user needs to possible hardware solutions and their operational, service an
delivery models.

You will be able to deliver and integrate, wherever relevant, devised solutions as part of th
IT Department's shared infrastructure services and will be able to support the various
technical teams across the Agency during their onboarding, guiding them to the best
solutions based on their specific needs.

**Development programme**
In addition to your daily work, you will take part in an extensive learning and development
programme. From day one, you will learn on the job and benefit from tailored developmen
opportunities, including explosure to different business areas of ESA and participation
in technical and key skills training courses.

On top of this, you will have additional training to build up specific skills and knowledge as
well as all the support you need to pursue your career in ESA.

As part of this assignment, taking your profile into account and with a view to boosting you
professional experience and knowledge of the European Space Agency, you will be offere
rotational assignments within and outside your initial organisational unit.

During your time at ESA, you will be able to learn a great deal about various aspects of th
space domain.

At the same time, you will be able to interact with the main vendors and suppliers of
computing infrastructure services and be trained on their respective solutions.

Finally, you will be able to learn about offering shared computing services to a broad varie
of technical teams, each with their own specific use cases and requirements.

**Technical competencies**
Computational concepts and algorithms
Cloud Computing and virtualisation
High Performance and High Throughput Computing

**Behavioural competencies**
Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

**Education**
A Master's-level degree in Computer Science or Engineering is required for this post

Participation in one of ESA 's entry-level programmes, i.e. Young Graduate Trainee, Natio
Trainee, or Research Fellow Programmes, will be recognised as eligible experience.

**Specificities**
The ESA Junior Professional Programme has a forward-looking perspective. Subject to
confirmed good performance, both technically and behaviourally, it is the intention to offer
you a permanent contract at the end of the three years. As such, this initiative represents a
significant investment by ESA in your personal and professional development. The
programme is designed to provide you with the required knowledge and skills in order to
ensure an optimal match, and to allow you to fulfil your role as effectively as possible. You
can expect to be given many opportunities to develop your professional experience and
competencies, to learn from ESA experts and to contribute to ESA activities.

Recruitment will take place at the A1 grade. You can expect to be upgraded to A2 at the e
of the fourth year, if you are offered a permanent position at the end of your Junior
Professional assignment.

**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 o
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 within 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.
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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, German
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 external candidates from under-
represented or balanced 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 befor
appointment.
*Member States, Associate Members or Cooperating States.