

Manufacturing Quality Verification Engineer

Job Req ID: 13945

Closing Date: 01 December 2021

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 03 November 2021

Vacancy in the Directorate of Technology, Engineering and Quality.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce & creating an inclusive working environment. We therefore 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

ESTEC, Noordwijk, Netherlands

Description

Manufacturing Quality Verification Engineer in the Materials' Physics and Chemistry Section, Technical Reliability and Quality Division, Product Assurance and Safety Department, Directorate of Technology, Engineering and Quality.

The Materials' Physics and Chemistry Section provides functional support to ESA projects and carries out technology research (R&D) in materials' physics and chemistry, associated processes, and environmental effects. It supports project-specific activities in the selection, characterisation, verification, approval, and application of metallic and non-metallic materials and processes for ESA programmes, with the focus on process and environmental verification as well as on the manufacturability and manufacturing readiness of ESA products.

Duties

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

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the area of manufacturing quality verification throughout all project phases with the focus on process verification, manufacturability and readiness to manufacture;
- supporting quality-related activities ensuring the manufacturability and manufacturing readiness of ESA products, in their full lifecycle, from early developments to product realisation; this includes activities ensuring the suitability and availability of materials, adequacy, reliability, verifiability and repeatability of processes, suitability of people's skills and of manufacturing

on materials' critical processes and manufacturing-related quality aspects;

- identifying critical manufacturing problems and assisting in their resolution via e.g. NRBs, auditing, etc.;
- co-ordinating and supporting non-conformance investigations and failure analysis in the above required areas of competence;
- contributing to the development of methods and tools for 'in-process' verification of manufacturing processes, failure detection and control;
- contributing to the development of modelling techniques and tools in your area of competence;
- contributing to the definition and implementation 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
- supporting and contributing to the establishment and implementation of requirements, handbooks and standards regarding space materials (Q-70 series) in your area of competence
- maintaining and developing ESA's competence in manufacturing quality verification, promoting achievements and concepts through conferences, workshops and training;
- fostering new application areas for multidisciplinary activities, with the 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 dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Duties may also include providing support for other activities within your area of competence.

Technical competencies

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

Knowledge of related technologies, R&D trends and the industrial landscape

Project support experience in technical domains covered by the position

Spacecraft systems knowledge

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

Experience in the management and monitoring of industrial activities, including participation in reviews

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in materials science or engineering, materials' physics or chemistry, manufacturing engineering or other field related to the position is required.

Experience with processes and manufacturing quality standards, possibly including their preparation and implementation.

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 State 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 or 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.

Apply n