

European Space Agency
Request for Manpower Support
Restricted Tender

Reference Nr.	RT-C/EOP-PM/00082
Position	E-ENG-01-32-10003 - EO Application Support Engineer (New Position)
Business Area	B - Engineering and Scientific Support to Earth Observation
Activity Domain	E-ENG - EOP Engineering Support
Work Package	E-ENG-01 - EOP Engineering Support
Work Package Type	Manpower Assignment Scheme
Generic Position	E-ENG-01-32 - Earth Observation Application Support Engineer
Job Class	E3
Duty Station	ECSAT
Support Location	On-Site
Organizational Unit	EOP-SC - ESA Climate Office
Technical Responsible	Lecomte, Pascal (EOP-SC)
ESA Job	E04-02-Applications Engineer
Support Period	02/10/2017 to 31/12/2021
FTE	1.00

In addition to what is specified in the Annex to the Statement of Work (see Business Area above) the following tasks and requirements are applicable

Specific Tasks

The main responsibilities of the post are to expand the awareness, utilisation and scientific impact of EO data for climate research and applications, in particular for the ocean but also for other domains of the earth system. The tasks include conducting scientific data exploitation activities and research studies to address gaps in knowledge as part of the contribution of European Earth Observation science to future IPCC assessments and reports, supporting and informing the implementation of global policy decisions taken at COP21 in Paris, December 2015.

In their capacity, the incumbent shall provide support to and advise on the detailed scientific goals of the various international scientific and operational user communities concerned with international climate research, modelling, adaptation and mitigation activities.

The post holder reports to the Head of the ESA Climate Office of the Science, Exploitation and Climate Department. The incumbent's tasks will include:

- Establishing a dialogue with specialised user communities, analysing their needs for satellite-based observations of the climate system, and assessing their feedback on available EO-based information;
- Deriving technical specifications for Fundamental Climate Data Records and Essential Climate Variables, chiefly from ESA EO Missions, with specific regard to long-term stability, consistency, completeness, availability, error-characterisation, reducing uncertainties, and compatibility with climate observations from other (Space and non space) sources;
- Setting up and managing industrial contracts (R&D projects and other EO exploitation activities) to respond to the needs for EO-based information of climate research and climate services, including for reanalysis, modelling, attribution, projection, prediction, trends assessment, and data assimilation;
- Ensuring the results of such developments are tested and verified with the corresponding climate user communities;
- Cooperating with internal and external partner organisations to transfer capabilities developed under a research and demonstration context into an operational framework;
- Maintaining links and ensuring coherence with relevant activities of Member States and international partner organisations;
- Contributing to the Agency's public communications on EO

Requirements

Applicants should hold a PhD preferably in oceanography, physics or geophysics, or other appropriate scientific fields, and have at least two years of experience in related remote sensing applications development and/or research.

Applicants should have extensive professional experience on product definition, calibration, validation, algorithm development, quality assessment and exploitation of Earth Observation data, particularly ESA missions, a demonstrable experience from relevant scientific exploitation activities either internationally or in ESA member states and an established profile with research communities working on the ocean and its relation to climate.

Particular importance will be attached to a candidate's personal scientific ability and credibility amongst their peers, as well as flexibility and adaptability. The candidate should be capable of working effectively in a team with minimum supervision and have excellent communication and presentation skills.

The working languages of the Agency are English and French. A good knowledge of one of these two languages is required. The knowledge of another member-state language is an asset.