



**“Support to satellite navigation services
development and use in Africa” Programme**

Joint Programme Office (JPO)

Vacancy Notice

N° JPO/WP02/2024/VAC/GNE01

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GNSS Systems Expert

1. Position information

Position title	GNSS Systems Expert
Vacancy notice	JPO/WP02/2024/VAC/GNE01
Duty station	Dakar, Senegal
Application deadline	29/11/2024
Date for entry in duty	01/01/2025
Eligibility	National of African Union member States <u>Eligible to be a resident and obtain a work permit in Senegal</u>
Special notice	The "Support to satellite navigation services development and use in Africa" Programme is supporting gender equality, and women and girl's empowerment. Female candidates are strongly encouraged to apply for the position.

2. Support to satellite navigation services development and use in Africa

The "Support to satellite navigation services development and use in Africa" Programme, co-funded by the European Commission (EC) and the Agency for Air Navigation Safety in Africa and Madagascar (ASECNA) in the frame of the Africa – EU Space partnership programme, aims to enhance, as far as satellite navigation is concerned, the African institutional and innovation space cooperation framework.

This objective is broken down into two (02) components:

- Component I:
Support to the development and provision of Satellite-based Augmentation System (SBAS) services in Africa, and to their integration into the regional strategies and planning
- Component II:
Support to the adoption and use of Global Navigation Satellite System (GNSS) services in Africa and to the development of corresponding applications and markets

The achievement of the Programme objective, its expected results and the performance of its related activities, are entrusted to a pan-African project team of experts, the SatNav Africa Joint Programme Office (JPO), which office is hosted by ASECNA in Dakar, Senegal.

The main beneficiaries of the Programme include the African Union institutions, including the African Commission Commission (AUC) and the African Space Agency (AfSA), the African Civil Aviation Commission (AFCAC), the International Civil Aviation Organisation (ICAO), the Arab Civil Aviation Organisation (ACAO), the Regional Economic Communities, the national Space Agencies, Air Navigation Service Providers (ANSPs) and Airlines.

Beneficiaries also include institutional, academic and industrial actors in the sectoral value chains beyond aviation, such as agriculture, maritime, geolocation/mapping, and drones.

The end beneficiaries include the air transport and other sectors end-users and the African citizens in general who will benefit from the positive economic and environmental impact of improved safety, cost reduction, lower carbon emission, increased connectivity, job creation, etc.

The governance of the Programme is provided through a Steering Committee, co-chaired by the African Union Commission and the European Commission in the frame of the Africa-EU Space Strategic Partnership.

The Programme is seeking to recruit expert(s) on GNSS systems and services.

3. Major duties and responsibilities

The incumbent will contribute to the implementation of the Programme to achieve its objective and expected results, providing specialised expertise in the field of satellite navigation system and services.

He/she will act as GNSS Systems Expert within the JPO team, under the guidance of the Head of Systems/Services.

He/she will interact with all the other members of the JPO team as well as with external organisations concerned with the implementation of the Programme.

The main responsibilities for the position will include:

1. Serve as a referent to the JPO team for the GNSS systems domain, and undertake the watch and scientific research activities in this domain
2. Plan and undertake the GNSS systems engineering activities, in support to the African SBAS programme(s) (e.g. ANGA) and to the political mobilisation and ownership, and the integration of SBAS services into continental and regional strategies and planning
3. Contribute to GNSS standardisation activities
4. Contribute to the GNSS operations and services provision engineering activities, and to the GNSS market development and economic assessment, from the GNSS systems perspective
5. Report functionally, on a periodic basis, to the Head of System/Services of the JPO team on tasks progress

4. Qualifications and experience

Education :

Essential :

- Master's degree in Engineering

Desirable:

- Degree in space applications (GNSS, Earth Observation, telecommunication)

Professional experience:

Essential:

- Five (5) years or more of professional experience in specification, design or validation of space systems and/or operational service

Desirable:

- Experience in GNSS systems engineering
- Experience with international standardisation processes and institutions
- Experience in the Galileo and/or EGNOS and/or other SBAS programmes

Languages:

Essential:

- Language 1: French or English: Proficiency user, CEFR¹ C1 level
- Language 2: French or English: Independent user, CEFR B1 level

GNSS engineering:

Essential:

Ability to:

- develop and organise detailed engineering and R&D projects in GNSS
- specify mission requirements and perform services definition activities for GNSS systems
- contribute to GNSS system development reviews (preliminary and critical design, qualification, operational readiness, ...)
- prepare GNSS services validation plan, and organise and follow-up corresponding validation campaign
- evaluate GNSS services performances
- support GNSS standardisation activities, for both ground/space and user segments
- deliver capacity building and training activities

¹ Common European Framework of Reference for Languages (CEFR)

Digital:

Essential:

- Advanced experience in using computers, including latest digital communication and document production tools (office software, VoIP software, ...)
- Advanced skills with advanced digital content (text, tables, database, ...) production

Desirable:

- Skills in modelling and development languages and software (UML, Visual Basic, C, C++, Python, Matlab, etc.)
- Skills with Project Management Software Tools (Microsoft Project or similar), and database Management (Excel, SQL, Access, PowerBI or equivalent)

5. Personal qualities

Ability:

- to demonstrate professional competence and mastery of subject matter, to work autonomously and confidentially, to be results driven, to make realistic commitments, to meet deadlines, to show persistence when faced with difficult situations or challenges, and to work under stressful situations
- to work in a multicultural environment, to work collaboratively with colleagues to achieve project goals, to solicit input by genuinely valuing others' ideas and expertise, to share credit for team accomplishments, and to accept joint responsibility for team shortcomings
- to speak and write clearly and effectively, to exhibit interest in having two-way communication, to address a wide audience, and to be eager to share information and to keep people informed.
- to take ownership of all responsibilities and honour commitments, to deliver outputs within prescribed time, cost and quality standards, and to operate in compliance with organisational regulations and rules.

6. Conditions of employment

Applications are opened to nationals of the African Union member States.

The post is to be filled on a fixed-term basis until March 2027. It may include a probation period of three (03) months.

Remuneration will be defined in accordance with the conditions applicable to the Programme and depending on the experience of the incumbent.

The type of employment contract may differ according to the status of the incumbent. This can include consultancy contract.

7. How to apply

Interested candidates must complete an application dossier which shall include:

- Curriculum Vitae (CV)
- Motivation letter
- Passport copy
- Copies of diploma(s) and certificate(s)
- Recommendation letter(s) (optional)

The CV shall be compliant with the Europass CV format and be created using the CV builder available here:

<https://europa.eu/europass/eportfolio/screen/cv-editor?lang=en>

Notes:

Instructions and guidelines for filling the CV can be found here:

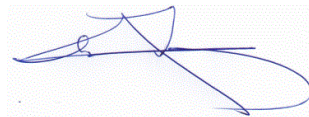
<https://europass.europa.eu/en/create-europass-cv>

Applications dossier shall be submitted electronically, by not later than November 29, 2024 (18:00 UTC) to: vacancy@satnav-africa.com

The "Support to satellite navigation services development and use in Africa" Programme reserves the right not to uphold the present vacancy notice.

12 novembre 2024

Director of the Programme



Ceubah GUELPINA

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