

Vacancy Notice

PUBLICATION DATE	JANUARY 15th 2026
DEADLINE FOR APPLICATION	FEBRUARY 04th 2026

N°	POSITION
1	Individual Consultant – AI Developer Support to the Development of the Climate Data Center (CDC) at ACMAD

1. Organizational Context

The African Centre of Meteorological Applications for Development (ACMAD) is a specialized institution responsible for providing weather and climate services in support of sustainable development in Africa. ACMAD works closely with National Meteorological and Hydrological Services (NMHSs), Regional Climate Centres, and international partners to strengthen climate resilience and climate-informed decision-making across the continent.

To enhance access to high-quality climate data and analytics, ACMAD is undertaking the development of a climate data center. The CDC will serve as a regional platform for the collection, management, analysis, and dissemination of climate and meteorological data. The integration of Artificial Intelligence (AI) and Machine Learning (ML) is considered essential to improve data quality control, analytics, and service delivery.

2. Purpose of the Consultancy

The purpose of this consultancy is to provide specialized AI and Machine Learning expertise to support the design, development, and operationalization of AI-driven components of the ACMAD Climate Data Center.

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Individual Consultant – AI Developer

3. Scope of Work

Under the supervision of the head of AI and IBF and in close collaboration with ACMAD technical teams and partners, the Individual Consultant will undertake the following duties:

3.1 AI-Enabled Data Management

- Support the development of automated data ingestion, quality control, and validation workflows for climate and meteorological datasets.
- Apply AI/ML techniques to improve data completeness, consistency, and reliability.
- Contribute to the definition of metadata standards and data governance practices.

3.2 AI & Machine Learning Applications

- Design, develop, and test ML models for climate data processing, including but not limited to:
 - Gap-filling and bias correction
 - Anomaly and trend detection
 - Climate indices generation and diagnostics
- Ensure reproducibility, transparency, and interpretability of AI models.

3.3 Climate Analytics and Service Support

- Support the development of AI-assisted analytics tools for climate monitoring and early warning.
- Collaborate with climate scientists to translate scientific and operational requirements into AI-based solutions.

- Contribute to the development of APIs or services for dissemination of AI-enhanced climate products.

3.4 Systems Integration and Deployment

- Support the integration of AI solutions into existing or planned CDC infrastructure (cloud, on-premise, or hybrid).
- Apply best practices in MLOps for model deployment, monitoring, and maintenance.
- Ensure compliance with ACMAD and partner standards on security and data protection.

3.5 Knowledge Transfer and Documentation

- Prepare technical documentation, user guides, and standard operating procedures.
- Provide hands-on knowledge transfer and training to ACMAD staff.
- Support sustainability and long-term maintenance of AI solutions.

4. Expected Outputs and Deliverables

The Consultant will deliver the following outputs:

1. Inception report outlining methodology, workplan, and timelines
2. Technical design documentation for AI components of the CDC
3. Operational AI/ML models and pipelines integrated into CDC systems
4. Well-documented source code maintained in ACMAD-approved repositories
5. Training materials and knowledge-transfer sessions for ACMAD staff
6. Final consultancy report summarizing activities, results, and recommendations

5. Competencies

5.1 Core Competencies

- Professionalism
- Teamwork
- Planning and organizing
- Communication

5.2 Functional Competencies

- Advanced AI/ML development skills
- Scientific and analytical thinking
- Systems integration and problem-solving
- Capacity development and knowledge sharing

6. Required Qualifications

6.1 Education

- Advanced university degree (Master's level or higher) in Computer Science, Data Science, Artificial Intelligence or Climate Informatics.

6.2 Experience

- Minimum 5 years of progressively responsible experience in AI/ML development or data science.
- Demonstrated experience working with large scientific or geospatial datasets.
- Experience in climate, meteorology, or environmental data systems is a strong asset.

6.3 Languages

- Fluency in English.
- Working knowledge of French is an asset.

7. Evaluation Criteria (Indicative)

Consultants will be evaluated based on:

- Education
- Technical expertise and relevant experience
- Understanding of the assignment and proposed methodology
- Quality and relevance of previous work
- Language

8. Confidentiality and Ownership of Materials

All data, documentation, software, and outputs produced under this consultancy shall remain the property of ACMAD. The Consultant shall adhere to ACMAD's confidentiality, data protection, and ethical standards.

9. Contractual Arrangements

- Contract duration: 12 months
- Level of effort: Full-time
- Duty station: Hybrid
- Salary: Salary and benefits will be commensurate with experience and qualifications of the candidate. Per diems will be allocated for international travel.
- Date of duty: As soon as possible after notification

10. Application Process

Interested candidates who meet the above criteria should submit:

1. A detailed updated CV
2. An application letter outlining relevant experiences and motivation
3. Certified true copies of Degrees and Certificates
4. Contacts of three referees from previous positions
5. A brief methodology of one or two pages which describes how the applicant intends to address the assignment

Women are explicitly encouraged to apply.

Deadline for Applications: February 04th, 2026

Review of applications will start immediately after. Vacancy can be extended until a suitable candidate is found.

Applications can be addressed to:

ACMAD, 55 Avenue des Ministères, PL 6, BP 13184, Niamey-Plateau, Niger

Email: contact@acmad.org; grh@acmad.org