

Vacancy Notice

(Extension)

N° 010/2026/ACMAD

PUBLICATION DATE	April 16th, 2026
APPLICATION DEADLINE	April 30th, 2026

POSITION
Full-Stack Software Engineer / Systems Architect Short Term Expert

I. Background

The African Centre of Meteorological Applications for Development (ACMAD) is a continental climate centre mandated to generate, manage, and disseminate weather and climate information, products, and advisories in support of sustainable development across Africa.

ACMAD has been developing a web-based digital platform built on existing open-source tools and technologies, including a content management system, geospatial services, APIs, and modern frontend frameworks. While the current system provides a strong foundation, ACMAD requires re-engineering and extension of several components to better support automated product dissemination, advanced visualization, service delivery monitoring, and digital engagement workflows appropriate for a continental climate centre.

ACMAD therefore seeks to recruit **an individual Consultant** / engineer to design and implement these enhancements.

II. Objective of the Assignment

The objective of this assignment is to **design, re-engineer, and extend ACMAD's existing digital platform** to:

- Customize products module into a system that Supports automated ingestion and management of climate and weather products via APIs and servers.
- Provide customized, interactive visualization of maps, weather, and climate products
- A CMS-driven **Service Charter** linked to product delivery timelines and internal compliance reminders
- Enable automated internal and external email notifications tied to product updates and service commitments
- Support management of meetings and events, including extension to streaming to third party platforms like Youtube

III. Scope of Work

Under the supervision of the IT Department, the personnel will work closely with ACMADs' team to carry out the following tasks:

1. Products and Data Ingestion
 - a. Re-engineer the **Products module** to support automated ingestion from
 - i. APIs
 - ii. Remote and/or onsite servers
 - iii. Development of libraries that make it easy for Thematic experts to interact with and integrate data/products into the website
 - b. Implement scheduled and/or push-based ingestion mechanisms
 - c. Ensure consistent metadata, versioning, and update detection
 - d. Enable editorial oversight without or minimal manual file handling
2. Frontend UI and User Experience
 - a. Customize and extend the web user interface built using React and [Next.js](#)
 - b. Re-design the UI that responsive and user friendly based on ACMAD needs to enable:
 - i. Browsing and filtering products
 - ii. Viewing advisories and datasets
 - iii. Accessing maps and weather information
 - c. Work closely with existing backend services to consume APIs efficiently
 - d. Ensure performance, accessibility, and maintainable component design (important!)
3. Map, Weather, and Climate Visualization
 - a. Extend the Design and integrate interactive visualization components for:
 - i. Provide an overall overview of desired map on the UI
 - ii. Snip view of the forecast and advisory layers
 - iii. Dataset previews
 - b. Support map-based interaction, filtering, and comparison where required
4. Service Charter and Compliance Monitoring
 - a. Design and implement a Service Charter module managed through the CMS
 - b. Define service commitments (frequency, deadlines, coverage, ownership)
 - c. Link service commitments to corresponding products and datasets
 - d. Develop automated background processes to:
 - i. Detect missing or delayed products
 - ii. Send reminder and escalation emails to responsible internal producers
 - e. Expose selected charter elements publicly as FAQ or service information pages
5. Automated Email and Notifications

- a. Customize and extend existing email capabilities to support:
 - i. Automatic notifications when products are published or updated
 - ii. Internal reminders linked to service delivery timelines
 - iii. Digest or topic-based subscription notifications
 - b. Ensure separation between:
 - i. Transactional/system emails
 - ii. Newsletter and campaign emails managed through external platforms
6. Meetings and Events Management
- a. Extend meetings and events functionality to support:
 - i. Online briefings, trainings, and stakeholder meetings
 - ii. Integration with streaming tools
 - iii. Embedded live streams and post-event recordings
 - b. Support scheduling, reminders, and publication of meeting materials
7. Documentation and Knowledge Transfer
- a. Produce clear technical documentation covering:
 - i. System architecture and data flows
 - ii. Custom modules, APIs, and frontend component
 - iii. deployment, configuration, and maintenance procedures
 - b. Conduct handover sessions with ACMAD technical staff

IV. Deliverables

- Re-engineered Products module with automated ingestion
- Customized React/Next.js frontend components for products, maps, and services
- Interactive map and weather visualization features
- CMS-managed Service Charter with automated compliance monitoring
- Automated email notification workflows
- Meetings/events module with streaming support
- Technical documentation and handover materials

V. Required Qualifications

a- Education

- A Bachelor's degree in Computer Science, Software Engineering, Information Systems, Computer Engineering, Geospatial engineering or a closely related field
- A **Master's degree** in a relevant discipline (e.g. Computer Science, Data Science, Geospatial Information Systems, Climate Informatics, or related fields).

b- Experience

- Proven strong experience scripting experience with python and python frameworks
- Solid experience building frontend applications with **React and [Next.js](#)**
- Experience designing and consuming REST APIs

- Experience with background task processing and schedulers
- Experience working with **geospatial, weather, or climate data systems**
- Experience integrating third-party services (email platforms, video streaming, APIs)
 - Ability to work independently and communicate effectively with both technical and non-technical stakeholders
 - Demonstrated experience with virtualization technologies (Docker).
 - Experience working with cloud compute
- **Required Skills and Competencies**
 - Familiarity with version control systems (Git) required.
 - Designing CI/CD pipelines is desired.
 - Training or certification related to Cloud Computing (e.g. AWS, Azure, Google Cloud, or equivalent platforms) is a strong advantage.
 - Sprint Planning and Reporting
- **Language Requirements**
 - Fluency in English/ or French with capacity to work in French/ or English

VI. Delivery Approach and performance evaluation

The developer will work using an Agile, sprint-based delivery approach to ensure continuous progress, frequent feedback, and timely releases. Work will be organized into time-boxed sprints (typically 2 weeks, unless otherwise agreed).

This shall entail participation in sprint planning meetings where scope, tasks, dependencies, risks and estimates are deliberated. The developer shall be expected to maintain a prioritized features, bugs and/or technical debt backlog jointly with the ACMAD team.

The developer shall from time to time participate in meetings that may include but not limited to sprint planning, weekly stand ups (check ins) sprint reviews/demos and Sprint retrospective.

The developer shall provide a short sprint report as agreed by the team lead regarding the completed vs the pending items, demo links/ screenshots, Pending items/blockers, risks and mitigations and next sprint priorities.

Key performance indicators shall include; delivery timeline, technical quality, functionality acceptance and the degree of knowledge transfer.

VII. Contractual arrangements

- Job family: ICT
- Duty Station: ACMAD Headquarters (Niamey Niger)
- Entity: IT Department
- Duration :3 months, renewable once if funding
- Contract type: Short Term Expert/Consultant
- Report to: The Director General
- 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

VIII. 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

Women are explicitly encouraged to apply.

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

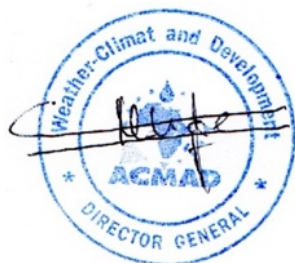
Applications can be addressed to:

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

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

Date: Niamey, April 15th 2026

Signature: Dr Ousmane NDIAYE



Director General