

Term of Reference

Consultancy for Data Engineer to Support ARIS in Strengthening Data Collection, Storage, Analysis, and Reporting

Context

The African Union Inter-African Bureau for Animal Resources (AU-IBAR) is a specialized technical office of the Directorate of Agriculture, Rural Development, Blue Economy and Sustainable Environment (DARBE) of the African Union Commission (AUC). AU-IBAR is mandated to support and coordinate the sustainable development and utilization of animal resources (livestock, fisheries and wildlife) to enhance nutrition and food security and contribute to the wellbeing and prosperity of the people in the Member State of the AU. AU-IBAR accomplishes its mandate through supporting and empowering the African Union Member States and the Regional Economic Communities (RECs). AU-IBAR's vision is of an Africa in which animal resources contribute significantly to the reduction of poverty and hunger. Founded in 1951 to study the epidemiological situation and fight rinderpest in Africa, AU-IBAR's mandate covers all aspects of animal resources, including livestock, fisheries and wildlife, across the entire African continent, but fills a unique and strategic niche by working at continental and regional levels, with the RECs being key partners. More information on AU-IBAR can be obtained from its web site: www.au-ibar.org

AU-IBAR led a cross-section of stakeholders in the livestock sector in Africa to formulate the Livestock Development Strategy for Africa (LiDeSA), a 20-year framework for the collective and coordinated development of the livestock on the continent. The strategy was approved by the AU Heads of States and Governments of the AU in January 2015. AU-IBAR also developed a pan-African Strategy for the Control and Eradication of Peste des Petits Ruminants (PPR) and Other Priority Diseases Eradication Strategy jointly developed and launched in April 2015 by the Food and Agriculture Organisation of Small Ruminants that is aligned to the PPR Global Control and of the United Nations (FAO) and the World Organization for Animal Health (WOAH).

AU-IBAR, based on the mandate given by the MSs, has developed and operationalised the Animal Resource Information System (ARIS) to collate and analyse animal resource data and shared AR information. In this regard, AU-IBAR seeks the services of a Data Engineer with a broad range of competencies in Data Analytics to provide technical support to AU-IBAR, RECs and Member States to prepare animal health status and reports, to ensure timely publication of the Panafrican Animal resource Yearbook as well as the publication of the status of animal health in Africa (SAHA).

2. Main functions

The Data Engineer will undertake the following tasks:

- Develop, test, and maintain ETL/ELT pipelines to ingest data from multiple sources and transform raw data into usable formats using SQL Server Tools or any other Open Source Tools
- Transform data into actionable insights to drive business decisions

- Develop dashboards & reports for publication
- Support the development and Implementation of ARIS in AU Member States
- Assist in building capacity of MSs and RECs on ARIS, AH and animal resource related data analysis and visualization
- Support establishment and operationalization of Regional Animal Health Information System (RAHIS in Central, Western and eastern Africa (IGAD/ICPALD, RAHC-CA and RAHC-ECOWAS)
- Support the technical committee for publication of the Pan African Animal Resources Yearbook (PARYB) and help produce other publications, including data analysis and mapping.
- Collection, collation and dissemination of information on all aspects of animal health in Africa.
- Participate in activities related to supporting member countries in animal health data management and analysis
- Assistance in providing disease status reports to the World Organisation for Animal Health (WOAH/WAHIS).
- Assistance in Collation of data on other relevant modules in ARIS
- Analysis of training evaluation reports of ARIS users

Specific responsibilities

- Support the development and Implementation of ARIS in AU Member States
- Develop ARIS protocols, guide implementation, data management, analysis and generation of output to guide the ARIS system
- Assist in building capacity of MSs and RECs on ARIS, AH and animal resource related data analysis and visualization
- Support the technical committee for publication of the Pan African Animal Resources Yearbook (PARYB) including data analysis and mapping where needed.
- Participate in activities related to supporting member countries in animal health data management and analysis
- Assist in providing disease status reports to the World Organisation for Animal Health (WOAH).
- Extract and compile of data on other relevant modules in ARIS
- Analysis of training evaluation reports of ARIS users
- Perform any other assignment/task as assigned

CRITERIA FOR SCORING

| Criteria | Scores (%) |
|-------------------------|------------|
| Qualifications | 20 |
| General Experience | 25 |
| Specific Experience | 40 |
| Other skills | 10 |
| Proficiency in language | 5 |
| Total | 100 |

Academic Requirements

The incumbent must have a Bachelor of Computer Science/Engineering or any related area

Relevant Experience

1. At least 5 years' experience in any aspect of Data Management
2. Having experience in Drupal as Framework Management Platform and SQL Server 2019 are desirable
3. Experience in data compilation and analytics
4. Proven experience and records in data management and analysis and reporting
5. Experience in the animal resources or agriculture sector would be an added advantage
6. Experience working with APIs, data exchange protocols, and cross-platform data integration
7. Familiarity with national digital health or veterinary data systems and their connection to regional or continental platforms

Specific Experience

1. Experience in data compilation and analytics
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Required Skills

1. Strong Statistical Reporting, Data Visualization, collection, and analysis
2. Good communication skill
3. Proficiency in SQL, Python, BI tools (Power BI/Tableau), Excel
4. Diplomacy and good interactive skills necessary for dealing with senior officials in Government, Regional Organizations, and donor/development organizations in Africa;

5. Good networking skills and ability to maintain positive and constructive dialogue and relationships with key institutions or stakeholders operating in the regions;
6. Very strong writing, analytical and communication, computer skills are necessary;
7. Proficiency in at least 2 AU official languages – English and French

Deliverables

1. **ETL/ELT Pipelines:** Development, documentation, and delivery of pipelines for integrating and transforming data from multiple sources.
2. **Integration & Transformation Reports:** Periodic reports on data quality, transformation processes, and actionable insights for decision-making
3. **Dashboards and Analytical Reports: Creation** and publication of interactive dashboards and analytical reports on animal health.
4. **ARIS Protocols & Implementation Guide:** Development of technical protocols and an ARIS implementation manual for Member States.
5. **Training Materials & Capacity Building Reports:** Production of training modules, user guides, and evaluation reports for capacity building activities.
6. **Documentation for RAHIS Operationalization :** Technical reports and roadmap for establishing and operationalizing the Regional Animal Health Information System (RAHIS) in Central, Western, and Eastern Africa (including IGAD/ICPALD, RAHC-CA, and RAHC-ECOWAS).
7. **Technical Contributions to Publications:** Data analysis and visualizations for the Pan African Animal Resources Yearbook (PARYB) and other official publications.
8. **WOAH/WAHIS Disease Status Reports**
Preparation of disease status reports formatted for submission to WOAH/WAHIS.
9. **Data Collection & Dissemination:** Record of all animal health data collected, compiled, and disseminated during the consultancy.
10. **Final Consultancy Report:** Comprehensive summary report of all activities, achievements, challenges, and recommendations.

Duty Stations

The consultant will be stationed at the AU-IBAR offices in Nairobi, Kenya and remotely as required with travel on specific assignments agreed with the AU-IBAR Management.

Gender Mainstreaming

The AU Commission is an equal opportunity employer and qualified women are strongly encouraged to apply.

Duration

The duration of this assignment is six (6) months. The contract would be renewable depending

on availability of funds and satisfactory performance. The selected candidate should be available to undertake this assignment as soon as the contract is signed.

Remuneration

The monthly remuneration for this Consultancy as per the **AU Salary Grade at P2 Step 5**. Expenses for missions will be covered separately in accordance with the applicable African Union Commission rules and regulations.

Supervision and Reporting

The consultant will work under guidance and supervision of the AU-IBAR Webmaster and Program Expert/PPR Project Coordinator the overall supervision of the Director AU-IBAR

Medical and Travel Cover for Consultant/S

The consultant/s will be responsible for their medical and travel insurance cover/s during the duration of the consultancy.

Disclaimer

All data, information and reports generated from the consultancy is intellectual property of AU-IBAR.

Submission of Applications

Applications should be submitted through email to: procurement@au-ibar.org with a copy to albert.obiero@au-ibar.org and should include the title **“Data Engineer”** in the subject of the email.

Applications Should Include The Following:

- i. *Detailed curriculum vitae (CV) and brief cover letter.*
- ii. *Copies of academic and professional certification documents.*
- iii. *Proposed methodology and approach for the assignment (workplan).*
- iv. *Declaration on exclusion criteria (see format attached).*
- v. *Identification documents.*

A Personal Data Protection and Privacy Statement is attached as information for the applicants.

Application Deadline

Applications should be submitted to the address given above by **06th August, 2025 at 23:59 Nairobi Local Time.**