



AUTORITE DU BASSIN DU NIGER
Secrétariat Exécutif
B.P : 729

NIGER BASIN AUTHORITY
Executive Secretariat
P.O. Box 729

(Niamey- Republic of Niger)



Terms of Reference for the recruitment of a Data Management, GIS and Remote Sensing Technician for the NB-ITTAS Project (Niger Basin - Iullemeden-Taoudeni/Tanezrouft Aquifer System) in NBA

Open to applicants from Niger Basin Authority member countries, including NBA internal applicants

Job title: Data management, GIS and Remote Sensing Technician

Duty station: Niamey, Niger

Estimated starting date: As soon as possible

Application deadline: 17 September 2020

A. BACKGROUND

The NB-ITTAS Project is an important opportunity for a sustainable use of natural resources, water, land, forests in the Niger Basin. NB-ITTAS (Niger Basin - Iullemeden-Taoudeni/Tanezrouft Aquifer System) which engages four implementation partners that are the NBA (for Components 2, 3 and 4), OSS (Components 1, 2 and 4), UNIDO (Component 3) and UNESCO (Component 4), is the expression of the implementation of the NBA Sustainable Development Action Plan of the Niger River Basin, and the development of the Trans-boundary Diagnostic Analysis (TDA) and Strategic Action Plan (SAP) of the Iullemeden-Taoudeni/Tanezrouft Aquifer System (SATT or ITTAS in English Iullemeden-Taoudeni/Tanezrouft Aquifer System).

The project covers the following aspects:

- The negative effects of climate change which put pressure on human health, food security and general livelihood and/or resilience.
- Degradation of land, other natural resources and change in the way these resources are used.
- Changes in the hydrological regime: result of a combination of climate variability and changes.
- Pollution: (i) Agricultural pollution; (ii) Industrial pollution (Industry, Mining and Oil); (iii) urban and domestic pollution; (iv) Infestation of invasive aquatic plants.



To ensure proper execution and proper monitoring of Project actions in the field, the Niger Basin Authority is launching a call for applications for the recruitment of a Data and GIS and Remote Sensing Technician. Under the general supervision of the Coordinator of Component 2 (Community demonstration projects) and under the direct supervision of the Monitoring, Evaluation and Learning Officer, the Assistant in charge of data, GIS and Remote Sensing will support the monitoring of data collection and analysis activities, maps and Atlas production activities as part of the monitoring of project activities, particularly, those of Component 2; Component 3 (pollution reduction) and Component 4 (governance of basin resources) in the project intervention area.

B. RESPONSIBILITIES AND TASKS

- Support the participatory processes of identifying, planning and implementing geographical and cartographic data collection activities and the development of thematic maps;
- Identify, acquire and continuously enrich the database with external spatial data relevant to management and conservation activities, REDD + pollution reduction;
- Identify and develop new methods of data compilation, recording and analysis of data, using new database systems such as smart phones, online tools and websites;
- Train and support other project and NBA experts, partner organisations and structures, associates and beneficiaries in the collection, storage, analysis, mapping, imagery and communication of the geospatial information;
- Ensure that the database is properly stored and regularly backed up. Provide technical support for the development and maintenance of the database web application and any other database programmes and functions requiring programming and analysis;
- Provide GIS support to NBA programmes, including the development of thematic maps.
- Support the analysis of remote sensing data (e.g. satellite images) to assess changes in the use of natural resources: forest water, land and land use in target areas of the project.
- Carry out ground verification as required, in collaboration with country staff, to verify maps and spatial analyses produced and determine levels of accuracy.

I. APPLICANT PROFILE

Cartographers specializing in Geographic Information System (GIS) and remote sensing must meet the following qualifications and criteria:

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

- BAC+5 degree in cartography, geography, geomatics, land use planning, engineering science or any other equivalent diploma;
- Good knowledge of conventional cartography and geomatics as well as their applications;
- Good knowledge of spatial analysis and GIS, and a perfect command of at least two (2) of the usual software for the development of digital cartography (MapInfo; Arc Gis; QGIS, etc.);
- Perfect command of one of the usual remote sensing software (Erdas Imagine, Envi, Géomatica);
- Master the interpretation and use of aerial photographs and satellite images;
- Perfect command of the use of GPS;
- Good knowledge of common computer applications and database management software (WORD, EXCELL, POWER POINT, ACCESS). Proficiency in a computer language (Visual Basic, SQL, etc.) would be an asset;
- Perfect command of French and/or English; good writing skills, knowledge of the other language would be an asset;
- Excellent ability to work in a team and under pressure.

III. PROFESSIONAL EXPERIENCE

Applicants must have:

- At least 5 years of professional experience in the field of geographic information system and remote sensing, based on similar and proven activities;
- Practical experiences in the development and management of spatial databases for analysis and mapping purposes;
- Practical experiences in the development of digital maps, maps and GIS; spatial analysis, the use of remote sensing for the purpose of supplying databases and monitoring resources;
- Proven experience in the participatory map production process (crowd-mapping);
- Proven skills in the areas of knowledge capitalization;
- Knowledge of the structuring principles of geographic databases.

IV. JOB DESCRIPTION

Job location: Niamey-Niger, at the headquarters of the Niger Basin Authority.

Start date: October 2020.

Salary: according to profile and experience.

C. APPLICATION FILE

The application files should include the following documents:

- A cover letter;
- A recent and detailed curriculum vitae;
- A copy of the citizenship certificate or any other document which may help to establish nationality;
- A copy of the titles, diplomas, and certificates of qualifications;
- A copy of the work or services certificates or attestation;
- One (1) passport-size photo;
- The names and addresses of three (3) reference persons.

I. CONTRACT DURATION

The contract is for a period of two (2) years, with a trial period of three (3) months. The GIS specialist shall be subject to an annual performance evaluation which may or may not determine the continuation of the contract.

II. RECRUITMENT

The position will be filled based on an advertisement made in CDiscussion, Josh Water Jobs and on the NBA website. The three (3) best applicants will be selected and ranked in order of merit.

The results shall be submitted to the NBA Executive Secretariat and the UNDP who shall select the most qualified of the three (3) best applicants.

III. SUBMISSION OF APPLICATION FILE

Applicants interested in the proposed position should submit their file, in a sealed envelope, to the address mentioned below no later than **Thursday, 17 September 2020 at 10 am UT** and must bear the words **“Recruitment of a Data Management, GIS and Remote Sensing Technician”**.

They should be addressed: for the attention of The Regional Coordinator of the NB-ITTAS project.

Project Headquarters: ***NBA Technical Directorate, Haro banda, 1st lane on the left after the Bridge (Right bank) coming from the GAWEYE hotel, 1st gate on the right, ask for the NB-ITTAS coordination unit.***

Files can also be submitted by email to the following addresses: amsatoujibo.nbittas@bassin-niger.org, amsatoudjibo2008@yahoo.fr with a copy to: a.timikaoura@bassin-niger.org no later than **Thursday, 17 September 2020 at 10 am UT**.

