



Internal/External Vacancy Announcement

Vacancy No:	VA/FPA/SOM/07-01/2016
Post Title:	GIS Analyst
Duration:	1 year
Type of Contract:	Service Contract
Level:	SC9
Duty Station:	Nairobi, Kenya
Date of Issue:	19 July 2016
Closing Date:	01 Aug 2016
Organizational Unit:	UNFPA Somalia Country Office

An outstanding opportunity for a qualified individual with a background in Geospatial Information Systems to make a real difference in the support to capacity development of geospatial data in Somalia and ensure that that UNFPA's programs on population and development are implemented in the context of the ICPD Programme of Action and UNFPA Strategic Plan.

If successful, you'll be part of a dynamic and passionate team in Somalia and Nairobi that works together to ensure that Population and Development issues are firmly placed within national development processes and national strategic frameworks.

The United Nations Population Fund (UNFPA) is an international development agency that promotes the right of every woman, man and child to enjoy a life of health and equal opportunity. UNFPA supports countries in using population data for policies and programmes to reduce poverty and to ensure that every pregnancy is wanted, every birth is safe, every young person is free of HIV/AIDS, and every girl and woman is treated with dignity and respect.

Background

This position is based in Nairobi with extensive travel to the field. The candidate will work under the overall guidance of the UNFPA Deputy Representative and direct supervision of the Population and Development Programme Specialist. The GIS Analyst will be responsible for the production of quality geospatial data and maps in timely manner and technical support to national statistical offices and related institutions. The analyst will support national mechanisms for development of geospatial systems towards capacity development of statistics in Somalia.

Job Purpose

The fragile situation in Somalia over the past 20 years resulted in the absence of strong national government institutions including statistical systems. The overall effect of this has been long standing critical gaps in reliable data and information in various sectors and administrative levels. The Somali Authorities responded by undertaking the population estimation survey. Through the population estimation survey, vast amount of data, including geospatial data has been generated for Somalia.

The recently concluded update of the sampling frame has revealed changes and gaps in the current frame. The existing frame is contiguous only within most urban and few rural areas. Furthermore, the frame does not have ground counts for some recently liberated urban areas and most rural areas.– There is therefore a need for a complete, accurate, up-to-date and contiguous frame for urban, rural, IDP and nomadic strata. Sufficient capacity within Somali authorities is necessary to undertake geospatial mapping and its contribution to statistics used in



the design, implementation, and monitoring of development policies and programs for sustainable socio and economic development. This capacity is inadequate at the moment and hence the need for this position. The post holder will work towards strengthening technical geospatial capacities of national and sub-national counter parts. S/he will work within an integrated and coordinated approach, which is fundamental to the Country Office and UNFPA's overall strategy.

Duties and Responsibilities

Develop and implement a comprehensive methodology on creating a contiguous sampling frame for use in household surveys and census.

Support the creation, updating and maintenance of a sampling frame geo-database in the ministries of planning of the respective Somali authorities.

Maintain and improve the sampling frame geo-database used in PESS; including updating, linking and verifying enumeration areas in urban and rural areas, creating attribute data for all digitized spatial features in the geo-database, constructing topology for spatial features and generating metadata for the geodatabase.

Carry out data conversion, including digitizing, scanning, editing and integration of enumeration area maps.

Coordinate the systematic geo-coding, reproduction and archiving of Enumeration Area maps from satellite imagery and other baseline data for field mapping exercises in respective authorities and ensure that the frame geo-database produces analytical products.

Support the development and piloting of a revised methodology for estimating the nomadic population in Somalia.

Train government staff on list frames and the application of geospatial techniques in updating a list frame as well as support capacity building workshops and trainings to improve skills of partners on geodatabase creation, geo-referencing, spatial and attribute data creation, GPS data collection and mapping, and satellite image interpretation.

Prepare documentation and guidelines required for GIS implementation in the collection of data during enumeration area mapping exercise and ensuring its compliance with the current standards and regulatory acts; the GIS being implemented should also be at the level with recent international developments in GIS. Develop training materials, manuals and forms for the collection of field data.

Advise on the geospatial analysis of statistical and household data.

Support the development of a quality assurance plan in conducting field mapping exercises and ensure quality assurance and quality control procedures are established.

Support the complete listing of households and dwelling units in enumeration areas through field mapping exercises.

Provide guidance and advice on the acquisition of satellite imagery and data-sets from different sources.

Carry out geo-referencing and digitization of enumeration areas in major urban towns and large rural settlements.

Prepare, if requested, thematic maps, GIS tools, datasets and special reports on the services being delivered.

Develop simple and effective methods of sharing and disseminating GIS based statistical results.

Integrate of statistical data with digital cartographic data.



Participate in working meetings related to the services being delivered, including presentations of work deliverables to unit and UNFPA.

Support any other activities as required by section head and recommend appropriate reactionary strategies in response to GIS analysis.

Required Skills and Experience

Education:

Master's degree or equivalent in Geospatial related discipline.

A first level university degree with a combination of relevant academic qualifications and 5 years' experience in Geospatial technologies in lieu of the advanced university degree.

Experience:

- At least four years progressively responsible experience in Geographic Information Systems, Remote Sensing techniques and Cartographic production. Experience in utilization of high and medium resolution satellite imagery for the purposes of feature extraction and digitization is highly desirable.
- Comprehensive working knowledge of ArcGIS, Quantum GIS and Remote Sensing software.
- Experience in planning and implementation of field mapping logistics.
- A relevant combination of academic qualifications, technical training and experience in the geospatial disciplines is essential.
- Technical capacity building or training in developing countries is essential.
- Experience with the UN's mandate, programmes, and operational activities in relating to statistics work.
- Experience working with Somalia authorities is desirable.

Technical Competencies:

- Knowledge of integrating statistical and geospatial information.
- Knowledge of census methodology and procedures, including data collection, processing, analysis and dissemination.
- Good technical knowledge of ArcGIS and Q-GIS and their applied programme modules.
- Knowledge of mobile mapping technologies.
- Experience in field survey work.
- Basic knowledge of at least one statistical database and its interface with GIS databases
- Proficiency in MS Office software applications (Particularly Excel and Word)

Other desirable skills:

Ability to conduct trainings on geospatial technologies.

Conceptual innovation in the provision of technical expertise

Experience working in fragile security contexts especially Somalia is a requirement.

Languages:

Fluency in oral and written English is a must.

Strong communication and writing skills in English.



Please note that this vacancy is open to Kenyan Nationals only. Applications with an updated CV and a completed http://www.escwa.un.org/main/vacancies/P_11.doc marked: "VA/FPA/SOM/07-01/2016 "GIS Analyst, Nairobi" in the subject line of the e-mail should be forwarded to the following email address: recruit.unfpasom@unfpa.org.

UNFPA will only be able to respond to those applications in which there is further interest.

UNFPA Work Environment:

UNFPA provides a work environment that reflects the values of gender equality, teamwork, respect for diversity, integrity and a healthy balance of work and life. We are committed to maintaining our balanced gender distribution and therefore encourage women to apply. - - - - -

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-----*No expectancy of renewal in accordance with UN Staff Regulations 4.5