



## ICT Specialist (Geospatial Information Specialist)

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Job categories</b>     | IT                                                                                                       |
| <b>Vacancy code</b>       | VA/2020/B5011/19901                                                                                      |
| <b>Level</b>              | ICS-10                                                                                                   |
| <b>Department/office</b>  | NYSC, SDC, UN Technology Support Services                                                                |
| <b>Duty station</b>       | Brindisi, Italy                                                                                          |
| <b>Contract type</b>      | International ICA                                                                                        |
| <b>Contract level</b>     | IICA-2                                                                                                   |
| <b>Duration</b>           | Open-ended subject to organizational requirements, availability of funds and/or satisfactory performance |
| <b>Application period</b> | 05-Jun-2020 to 21-Jun-2020                                                                               |

Applications to vacancies must be received before midnight Copenhagen time (CET) on the closing date of the announcement.

### Background Information - Job-specific

The ICT Specialist (Geospatial Information Specialist) will carry out his/her tasks within SGITT GIS Section which aims at providing global services to support United Nations Global Service Centre (UNGSC), field missions, UN agencies and partners.

This is a position in UNOPS for supporting projects carried out for or in the United Nations Secretariat. The incumbent of this position will be a staff member of UNOPS under its full responsibility.

### Functional Responsibilities

Under the overall supervision of UNOPS Senior Programme Manager, the incumbent will work under the Chief Analytics and Location Intelligence Unit (ALIU), or a designated officer, and be responsible for providing practical support to subsurface studies including groundwater exploration efforts within the section.

The ICT Specialist (Geospatial Information Specialist) will be responsible for the following duties:

1. Provides team leadership and defines technical specifications for products to be derived from satellite/aerial imagery:

- Develops methodological approaches for interpretation of multispectral and radar imagery to generate products and information related to natural and man-made surface features, geological features, terrain configuration, hydrology, vegetation, sites of interest, etc.;
- Performs image processing tasks to produce quality image maps and orthorectified color balanced mosaics;
- Produces indices from imagery (mineral indices, soil moisture content indices, etc.) to be used in further analyses;
- Keeps abreast of the latest technologies in image processing and spatial an terrain analysis.

2. Performs spatial, terrain, and environmental analyses to produce quality products and reports:

- Performs rigorous spatial and terrain analysis for groundwater exploration;
- Conducts environmental analysis and produces quality assessment reports;
- Provides technical expertise in hydro-geology and geophysics ;
- Assists in the development of technical guidelines and standard operating procedures (SOPs) for conduction of spatial and terrain analyses.

3. Customizes models and workflows for 2-dimensional and 3-dimensional analyses:

- Customizes workflows for processing digital elevation models (DEM) to generate specific products required for performance of spatial and terrain analysis;
- Develops workflows for production of contours, slopes, aspects, and shaded relief to be used in a variety of geospatial applications such as line of sight analysis, trafficability, etc.);
- Develops site suitability models; Uses the workflows and models to produce quality data, timely and accurate information, and reports to support field missions' operations and decision-making processes.

4. Conducts intensive fieldwork in support of peace operation in field missions:

- Plans and execute geophysical surveys (electrical resistivity tomography) for subsurface studies including groundwater exploration in often hazardous field missions' environments (for example South Sudan and Mali);
- Prepares cargo movement requests (CMRs) for equipment and accessories needed for conduction of the surveys;
- Collects GPS coordinates for roads, landmarks and other geospatial data.

5. Performs drilling supervision of third-party drilling contractors.

6. Supports borehole and well monitoring, including groundwater monitoring strategy design and implementation.

7. Performs other subsurface studies including using GPR techniques.

8. Performs supervisory and administrative duties:

- Supervises junior staff and consultants and monitor work progress of planned tasks and activities;
- Provides inputs towards performance evaluation of junior staff and consultants;
- Participates in budget preparation, procurement planning, vendor's performance evaluations and R&I.
- Provides inputs for unit's KPIs and progress reports.

9. Performs other duties as may be reasonably required and in line with the incumbent's scope of services above.

### **Impact of Results**

The incumbent should work with minimal amount of supervision; independently provides accurate deliverables in the areas of GIS.

## **Education/Experience/Language requirements**

### **Education**

- Advanced university degree (Master's degree or equivalent) in Cartography, Geography, Geospatial Information Systems (GIS), or related fields is required.
- A first-level university degree (Bachelor's degree) in combination with an additional two (2) years of qualifying experience may be accepted in lieu of the advanced university degree.

### **Work Experience**

#### **Required**

- A minimum of five (5) years of progressively responsible experience in processing, analyzing, and interpreting multispectral and radar imagery for geological applications is required.
- Performance of geospatial/terrain analysis and ability to conduct geo-physical surveys is required.
- Knowledge of and practical experience in ArcGIS (ArcInfo, ArcEditor, ArcView, and all extensions) and ERDAS Imagine is required.

#### **Desirable**

- Knowledge of and practical experience in Leica Photogrammetry Suite (LPS) is desirable.
- Knowledge of cartography and mapping, as well as GPS surveying is desirable.
- Experience in leading teams in technical environment and field experience are desirable.
- Work experience with UN field operations is desirable.

- Knowledge of base mapping, geospatial information system design and implementation, geospatial database design and development, web technologies and project management tools is desirable.

## Language requirements

- For this job opening, fluency in English (both oral and written) is required;
- English and French are the working languages of the UN Secretariat. Knowledge of another UN official language is desirable.

## Contract type, level and duration

Contract type: Individual Contractor Agreement (ICA)

Contract level: International Individual Contractor Agreement (I-ICA 2)

Contract duration: Open-ended (renewable subject to funds availability and satisfactory performance)

For more details about the ICA contractual modality, please follow this link:

<https://www.unops.org/english/Opportunities/job-opportunities/what-we-offer/Pages/Individual-Contractor-Agreements.aspx> (<https://www.unops.org/english/Opportunities/job-opportunities/what-we-offer/Pages/Individual-Contractor-Agreements.aspx>).

## Competencies



Develops and implements sustainable business strategies, thinks long term and externally in order to positively shape the organization. Anticipates and perceives the impact and implications of future decisions and activities on other parts of the organization. **(for levels IICA-2, IICA-3, LICA Specialist- 10, LICA Specialist-11, NOC, NOD, P3, P4 and above)**



Treats all individuals with respect; responds sensitively to differences and encourages others to do the same. Upholds organizational and ethical norms. Maintains high standards of trustworthiness. Role model for diversity and inclusion.



Acts as a positive role model contributing to the team spirit. Collaborates and supports the development of others. **For people managers only:** Acts as positive leadership role model, motivates, directs and inspires others to succeed, utilizing appropriate leadership styles.



Demonstrates understanding of the impact of own role on all partners and always puts the end beneficiary first. Builds and maintains strong external relationships and is a competent partner for others (if relevant to the role).



Efficiently establishes an appropriate course of action for self and/or others to accomplish a goal. Actions lead to total task accomplishment through concern for quality in all areas. Sees opportunities and takes the initiative to act on them. Understands that responsible use of resources maximizes our impact on our beneficiaries.



Open to change and flexible in a fast paced environment. Effectively adapts own approach to suit changing circumstances or requirements. Reflects on experiences and modifies own behavior. Performance is consistent, even under pressure. Always pursues continuous improvements.



Evaluates data and courses of action to reach logical, pragmatic decisions. Takes an unbiased, rational approach with calculated risks. Applies innovation and creativity to problem-solving.



Expresses ideas or facts in a clear, concise and open manner. Communication indicates a consideration for the feelings and needs of others. Actively listens and proactively shares knowledge. Handles conflict effectively, by overcoming differences of opinion and finding common ground.

## Additional Considerations

- Please note that the closing date is midnight Copenhagen time
- Applications received after the closing date will not be considered.
- Only those candidates that are short-listed for interviews will be notified.
- **Qualified female candidates are strongly encouraged to apply.**
- UNOPS seeks to reasonably accommodate candidates with special needs, upon request.
- Work life harmonization - UNOPS values its people and recognizes the importance of balancing professional and personal demands. We have a progressive policy on work-life harmonization and offer several flexible working options. This policy applies to UNOPS personnel on all contract types
- For staff positions only, UNOPS reserves the right to appoint a candidate at a lower level than the advertised level of the post
- The incumbent is responsible to abide by security policies, administrative instructions, plans and procedures of the UN Security Management System and that of UNOPS.

*It is the policy of UNOPS to conduct background checks on all potential recruits/interns. Recruitment/internship in UNOPS is contingent on the results of such checks.*

## Background Information - UNOPS

UNOPS is an operational arm of the United Nations, supporting the successful implementation of its partners' peacebuilding, humanitarian and development projects around the world. Our mission is to help people build better lives and countries achieve sustainable development.

UNOPS areas of expertise cover infrastructure, procurement, project management, financial management and human resources.

## Working with us

UNOPS offers short- and long-term work opportunities in diverse and challenging environments across the globe. We are looking for creative, results-focused professionals with skills in a range of disciplines.

## Diversity

With over 4,000 UNOPS personnel and approximately 7,000 personnel recruited on behalf of UNOPS partners spread across 80 countries, our workforce represents a wide range of nationalities and cultures. We promote a balanced, diverse workforce — a strength that helps us better understand and address our partners' needs, and continually strive to improve our gender balance through initiatives and policies that encourage recruitment of qualified female candidates.

## Work life harmonization

UNOPS values its people and recognizes the importance of balancing professional and personal demands.

## Background Information: Sustainable Development Cluster(SDC)

Based in New York, the Sustainable Development Cluster (SDC) supports diverse partners with their peacebuilding, humanitarian and development operations.

The SDC's services include grants management, development and special initiatives support, and technology support to the UN and UN agencies.

The SDC is part of the New York Service Cluster that supports the United Nations Secretariat, as well as a broadening community of other New York-based United Nations organizations, bilateral and multilateral partners in the delivery of UNOPS mandate in project management, infrastructure management, and procurement management.

### DISCLAIMER

The screening of your application will be conducted based on the information in your profile. Before applying, we strongly suggest that you review your [UNOPS Jobs profile](https://jobs.unops.org/pages/User/CreateProfile.aspx) (<https://jobs.unops.org/pages/User/CreateProfile.aspx>) to ensure completeness, especially the education and experience sections.

### RELEVANT STORIES

- "Each place that I work in has so much history and culture to explore and I am lucky enough to enjoy it all, while helping improve the health of local communities"

**Nang Shri Seng Lao**

Unops Logistics Officer, Myanmar

- "UNOPS is a results-oriented organization – it therefore pushes me to perform at my best every day."

**Mariacarmen Colitti**

Senior Partnerships and Liaison Advisor

**[Explore our work >> \(https://www.unops.org/news-and-stories/?type%5B%5D=StoryArticle\)](https://www.unops.org/news-and-stories/?type%5B%5D=StoryArticle)**