unicef ✿
for every child

CONSULTANCY - TERMS OF REFERENCE

Giga – Mapping and Tech Specialist

Division: Office of Innovation
Initial Duration: 12 months
Duty Station: Barcelona, Spain

Advertising summary

We are seeking a talented, passionate Mapping and Tech Specialist to join Giga, an initiative to connect every school in the world to the Internet and every young person to information, opportunity and choice. The Mapping and Tech Specialist will work with a multidisciplinary team to support the design, planning, implementation and evaluation of different cutting-edge products and activities that will help us achieve the ambitious goal of connecting every school, and every young person to the internet.

Child Safeguarding

Is this project/assignment considered as "Elevated Risk Role" from a child safeguarding perspective? ☐ YES ■ NO

Direct contact role ☐ YES ■ NO
If yes, please indicate the number of hours/months of direct interpersonal contact with children, or work in their immediately physical proximity, with limited supervision by a more senior member of personnel:

Child data role ☐ YES ■ NO If yes, please indicate the number of hours/months of manipulating or transmitting personal identifiable information of children (name, national ID, location data, photos):

More information is available in the Child Safeguarding SharePoint and Child Safeguarding FAQs and Updates

UNICEF's Mission

UNICEF works in some of the world's toughest places, to reach the world's most disadvantaged children. To save their lives. To defend their rights. To help them fulfill their potential. Across 190 countries and territories, we work for every child, everywhere, every day, to build a better world for everyone. And we never give up.

For every child... innovate

UNICEF has a 70-year history of innovating for children. We believe that new approaches, partnerships and technologies that support realizing children's rights are critical to improving their lives.

The **Office of Innovation** is a creative, interactive, and agile team in UNICEF. We sit at a unique intersection, where an organization that works on huge global issues meets the start-up thinking, the technology, and the partners that turn this energy into scalable solutions.

About Giga

Giga, a joint initiative between UNICEF and ITU, aims to connect every school in the world to the internet, addressing the global digital divide. Giga uses schools as anchor points to extend connectivity to surrounding communities, promoting economic growth and sustainability. Mapping school connectivity levels using machine learning and satellite images is the first step in identifying areas in need. So far, over 2.1 million schools in 136 countries have been mapped. Giga works with governments and private investors to secure funding and has already connected schools in 19 countries, including remote regions and refugee camps.

You can read more about Giga's work at https://giga.global/ and by following us on X @Gigaglobal.

How can you make a difference?

UNICEF is seeking a strong self-motivated Mapping and Tech Specialist who can uphold the quality of their work even under tight time constraints and who can work with a diverse interdisciplinary tech team of engineers, designers, data scientists and researchers to support the planning, implementation and monitoring of different activities and tools for Giga Tech Centre.

Your responsibilities will be:

1. Provide technical support to the Mapping and Tech Lead in the in the planning and implementation of strategic priorities out of Giga's Barcelona Tech Center, and in day-to-day operations when needed.
2. Work closely with the cross-functional Giga team and the Mapping and Tech Lead to drive product cohesion and scale-up, including implementing and overseeing progress against the team's yearly priorities.
3. Coordinate cross-functional support for Giga's technology team, including open-source community management, country deployment of products and other key initiatives and efforts.
4. Co-design and ensure adoption of best practices and guidelines for product ideation, development and scale-up, including open-source principles across the tech stack and documentation efforts.
5. Coordinate and manage joint work with internal and external stakeholders, including vendors and tech partners, ensuring alignment with Giga's goals and timelines.
6. Conduct data analysis and progress reporting in pro of the technology team's strategic plan, providing actionable insights to inform decisions and enhance effectiveness.

7. Steward Giga's real-time monitoring efforts, including the continuous improvement of Giga's approach to collect and analyse school connectivity data.
8. Represent, promote, and advocate Giga in discussions with external stakeholders, including donors, partners, and government representatives, enhancing Giga's visibility and cultivating strategic partnerships.

Your main deliverables will be:

	Tasks	End Product/ Deliverables	Time Frame
1	Collaborate with the mapping and tech lead to identify strategic priorities and develop a detailed implementation plan.	Documented strategic priorities and detailed implementation plan for the Barcelona Tech Center.	Month 1
		Log of support activities and progress reports for daily operations and strategic priorities.	Month 2
2	Coordinate with the cross-functional team to align on product development goals.	Documented plan and initial progress report for product cohesion and scale-up activities.	Month 3
		Mid-term review report on the implementation and oversight of yearly priorities.	Month 4
3	Coordinate cross-functional support to Giga's technology team (including across open -source community management, country development of products, and other key initiatives and efforts).	Coordination plan and documentation of support activities for the tech team.	Month 5
		Progress report on Open -source community management and country activities.	Month 6
4	Draft and refine best practices and guidelines for product development.	Document best practices and guidelines for product ideation, development and scale-up	Month 7
		Training materials and adoption report on best practices and guidelines	Month 8

5	Coordinate and manage joint work with internal and external stakeholders, including vendors and tech partners, ensuring alignment with Giga's goals and timelines.	Stakeholder engagement plan and coordination documentation with vendors and tech partners. Progress report on joint work and alignment with stakeholders.	Month 9
6	Conduct data analysis and progress reporting in pro of the technology team's strategic plan	Data analysis report with actionable insights for the technology team's strategic plan.	Month 10
7	Steward Giga's real-time monitoring efforts, including the continuous improvement of Giga's approach to collect and analyze school connectivity data	Report on real-time monitoring efforts and improvements in school connectivity data analysis.	Month 11
8	Develop promotional material and presentations to highlight Giga's work	Documentation of promotional materials, stakeholder meetings, and advocacy efforts to enhance Giga's visibility and partnerships.	Month 12

Travel
- The consultant is expected to travel to Geneva two times (2 trips), for a stay of 4-5 nights.
- The consultant is expected to travel to four Giga countries (4 trips), for a stay of 4-5 nights.
- The consultant is responsible for arranging his/her own travel, including visa.

Payment details and further considerations
- Payment of professional fees will be based on the submission of agreed deliverables. UNICEF reserves the right to withhold payment in case the deliverables submitted are not up to the required standard or in case of delays in submitting the deliverables on the part of the consultant.
- Consultant is responsible for his/her own health and travel insurance.
- Consultant is responsible to arrange his/her own travel, including visa.
- UNICEF will facilitate the process for obtaining local permits exclusively for the consultant, excluding any dependents.

To qualify as an advocate for every child you will have…
- An Advanced degree in computer science, information technology and information systems, systems and network administration, or a related technical discipline.

* A first University Degree coupled with 2 years of relevant experience could be considered in lieu of an advanced degree.

- A minimum of five (5) years of work experience working with technical management teams to develop and deploy systems and solutions, or network/systems engineering, or technical product/program management experience.
- Experience in facilitating engagements with an array of partners at the national/regional level, i.e., government entities, telecommunication regulators, international development organizations, or civil society, etc.
- Experience providing hands-on program management support.
- Organizational, coordination, and multi-tasking experience. Capacity to work independently with minimal supervision.
- Analytical and problem-solving experience.
- Experience establishing work relationships across multi-disciplinary teams with different technical skills and multiple partners in different time zones.
- Proven experience in translating complex ideas from various fields into unified, clear guidance.
- Fluency in English is required. Knowledge of another official UN language (Arabic, Chinese, French, Russian or Spanish) or a local language is an asset.

For every Child, you demonstrate…

UNICEF's values of Care, Respect, Integrity, Trust, and Accountability (CRITA).

To view our competency framework, please visit [here](#).

UNICEF is committed to diversity and inclusion within its workforce, and encourages all candidates, irrespective of gender, nationality, religious and ethnic backgrounds, including persons living with disabilities, to apply to become a part of the organization.

UNICEF has a zero-tolerance policy on conduct that is incompatible with the aims and objectives of the United Nations and UNICEF, including sexual exploitation and abuse, sexual harassment, abuse of authority and discrimination. UNICEF also adheres to strict child safeguarding principles. All selected candidates will, therefore, undergo rigorous reference and background checks, and will be expected to adhere to these standards and principles.