



SPECIFIC JOB PROFILE

I. Post Information

**Job title: Engineer (Solar)
Supervisor title/Level: Construction
Manager, P4
Organizational Unit: Supply Logistics,
Operations**

**Category: National officer
Post level: NOA
Post Location: Lebanon, Beirut
Post number: 126014**

II. Strategic Office Context and purpose for the job

The fundamental mission of UNICEF is to promote the rights of every child, everywhere, in everything the organization does — in programs, in advocacy and in operations. The equity strategy, emphasizing the most disadvantaged and excluded children and families, translates this commitment to children's rights into action. For UNICEF, equity means that all children have an opportunity to survive, develop and reach their full potential, without discrimination, bias or favoritism. To the degree that any child has an unequal chance in life — in its social, political, economic, civic and cultural dimensions — her or his rights are violated. There is growing evidence that investing in the health, education and protection of a society's most disadvantaged citizens — addressing inequity — not only will give all children the opportunity to fulfill their potential but also will lead to sustained growth and stability of countries. This is why the focus on equity is so vital. It accelerates progress towards realizing the human rights of all children, which is the universal mandate of UNICEF, as outlined by the Convention on the Rights of the Child, while also supporting the equitable development of nations.

Organizational Context and Purpose for the Job:

Clean, affordable and reliable energy is an important enabler and dramatically improves the quality, accessibility and reliability of child-centric social services including health, education and WASH, while making these public systems more resilient to the impacts of climate change. Without electricity, it is impossible to achieve universal health care, reduced child mortality, and improved maternal health (SDG 3 on Health); inclusive and quality education for all (SDG 4 Education), and clean water and sanitation (SDG 6 WASH).

Clean and reliable energy improves access to clean water through solar pumps; improves digital connectivity essential for young people's prospects and learning; ensuring lighting in the home so that children can do their homework at night; and powering life-saving medical and cold-chain equipment for vaccines, among multiple other areas. UNICEF works with partners to support child-centric locations like schools, health

facilities, and water systems in its sustainable energy efforts. It also helps reduce indoor and outdoor air pollution.

Lebanon's electricity sector is experiencing critical challenges, including fuel shortages. This is exacerbated by the economic crisis which is causing increasingly frequent and lengthy blackouts.

To address the power crisis and mitigate the impact on public health services, especially immunization, UNICEF is supporting the Ministry of Health (MoH) with the solarization of public health centres (PHCs) and dispensaries. Health facility solar electrification (HSFE) provides health facilities with sustainable electricity, enabling them to perform both routine and lifesaving health services for hard-to-reach children and communities

The electricity shortage is also having a major impact on Lebanon's education sector. Lebanon's 1237 schools and up to 511,000 children in Grades 1-12 do not have access to reliable power supply. UNICEF is supporting the Ministry of Education and Higher Education (MEHE) to install solar systems in public schools.

To build on the existing Renewable Energy initiatives and to extend further support to the Government of Lebanon, UNICEF is therefore seeking to hire a qualified Electrical Engineer with a specialization in Renewable Energy/ Solar to be able to support the country office programmes and operations to designing, planning, implementing and monitoring work plans to deliver solar projects.

The Solar Engineer will report directly to the Construction Manager and will work closely with the project managers from the relevant programmes and the supply team.

III. Key functions, accountabilities and related duties/tasks:

Summary of key functions/accountabilities:

- Programme development and planning
- Programme management, monitoring and delivery of results
- Technical and operational support for programme implementation
- Innovation, knowledge management and capacity

1. Programme development and planning

- Identify all stakeholders in the country associated with the solar solarization of health and education facilities.
- Support CO to identify facilities for energy & infrastructure assessment according to the programme objectives of the UNICEF and Government. The study should identify the sites with the most need of solar energy intervention with the possibility of having the highest impact on service delivery.
- Contribute to the establishment of dedicated project management teams (PMT) to manage solar activities/services. The team membership shall include relevant departments of the main line Ministries, and other national and international stakeholders.

- Support and/or lead when necessary, the development of assessment templates and training material for the country context.
- Oversee the deployment of assessment teams and coordinate with the vendor (if applicable), PMT, as well as the relevant project stakeholders the conduction of solar energy need assessment.
- Guide the analysis of the assessment data and develop the operation deployment plan (ODP++) for solarization.
- Guide the project teams and UNICEF to select appropriate Photo Voltaic (PV) systems for the assessed facilities based on the assessment data analysis.
- Participate in strategic programme discussions on the planning of solarization programmes with government, and partners, with a focus on strategies to address sustainability, and inequities, including gender disparities.
- Support the stakeholders to plan for adequate operations and maintenance strategy in coordination with UNICEF PG/SD.
- Work closely with relevant colleagues, UN partners, global initiatives, INGOs as well as National and State Government counterparts to develop and manage assigned projects.

2. Programme management, monitoring and delivery of results

- Plan and/or collaborate with internal and external partners to establish monitoring benchmarks, performance indicators and other UNICEF/UN system indicators and measurements to assess and strengthen performance accountability, coherence and delivery of concrete and sustainable results for the assigned health programmes
- Participate and liaise with PMT for day-to-day management and monitoring and evaluation exercises, programme reviews and progress and determine required action/interventions to achieve results.
- Ensure the monitoring framework of key results is regularly updated and key deliverables are achieved.
- Actively generate and utilize both primary and secondary data to inform program improvement design or redesign.
- Prepare inputs for programmes and donor reporting.

3. Technical and operational support for programme implementation

- Provide technical guidance and operational support to government counterparts, vendors, NGO partners, UN system partners and other country office partners on the procurement of Photo Voltaic (PV) systems for the project.
- Assist the supply section to coordinate the in-country distribution of the PV system.
- Coordinate PMT and the vendor/partners installation, commissioning, and end-user training of the PV systems.
- Support and monitor the installation team's logistics during the installation phase.
- Conduct system and works inspection for quality assurance during installation and commissioning, performance monitoring and provide feedback to Supply Division.
- Support on implementation of Operation and Maintenance models accepted by stakeholders.
- Support the documentation, reporting and sharing of innovations, success stories and programme activities related to the programme implementation.

4. Innovation, knowledge management and capacity building

- Apply and introduce innovative approaches and good practices to build the capacity of partners and stakeholders, and to support the implementation and delivery of concrete and sustainable programme results.
- Keep abreast and conduct research to provide evidence for the implementation of best and cutting-edge practices in health.
- Organize and implement capacity-building initiatives to enhance the competencies of stakeholders to promote sustainable results on health-related programmes/projects.
- Support the documentation, reporting and sharing of innovations, success stories and programme activities.
- Provide technical leadership and coordination of relevant operational research, thus contributing to the knowledge base in health systems and innovation.
- Disseminate relevant academic research findings, publications, presentations, and reports.

IV. Impact of Results

The Solar Engineer will enable the Country Office to contribute to the implementation of UNICEF's 2022-2025 Strategic Plan and the 2023-2030 Sustainability & Climate Action Plan. This, will also contribute to the achievement of the outcome results of the Country Programme Document. When done effectively, the achievement of the outcome results will improve child survival, growth, and development and reduce inequalities in the country.

V. Competencies and level of proficiency required

Core Values

- Care
- Respect
- Integrity
- Trust
- Accountability

Core competencies:

- Demonstrates Self Awareness and Ethical Awareness (1)
- Works Collaboratively with others (1)
- Builds and Maintains Partnerships (1)
- Innovates and Embraces Change (1)
- Thinks and Acts Strategically (1)
- Drive to achieve impactful results (1)
- Manages ambiguity and complexity (1)

VI. Recruitment Qualifications

Education:

- A university degree in Electrical/Energy Engineering, with a specialization in Renewable Energy, Green technologies, or any other relevant post-graduate

	<p>courses on solar energy that complement/supplement the main degree.</p>
<p>Experience:</p>	<ul style="list-style-type: none"> ▪ Minimum of one year of relevant work experience in the solar sector, in the development sector focusing on solar energy solutions deployment. ▪ Experience in collaborating with MoE, MoH, and energy-health stakeholders ▪ Knowledge of solar PV equipment compliance standards and certification. ▪ Experience with site data collection, monitoring, and database management. ▪ Knowledge of energy efficiency and energy conservation concepts. ▪ Working experience with the UN is an asset including in cold chain logistics and immunization programs.
<p>Language Requirements:</p>	<ul style="list-style-type: none"> ▪ Fluency in English and Arabic is required. Knowledge of another official UN language or the local language is an asset.