



Role Description – Senior Project Engineer

December 2023

ABOUT FIELD READY

Field Ready is an international non-governmental organization dedicated to empowering people living in complex environments to make the things they need, where they need them, when they need them. We do this by bringing innovation to international disaster relief and increasing the capacity of local supply chains in aid and development.

Our vision is to meet humanitarian needs by transforming logistics through technology, innovative design, partnerships with local manufacturers and leading relief organizations, and engaging people in new ways. We make useful items to solve problems locally using the latest technology, as well as traditional local manufacturing. We build capacity to extend this impact and enable others to foster their own resilience. In the long term, we are building an organization that can respond to need wherever it may be most felt. The impact of this will be dramatically improving the efficiency of aid delivery by meeting people's needs where they experience them whether at an underserved health clinic, remote distribution point, or evacuation center. Field Ready is a US-based 501c3; more information can be found at www.fieldready.org.

POSITION SUMMARY

The role of the Senior Project Engineer is to provide engineering, design, and fabrication expertise to the Pacific Engineering Team. The role reports to the Regional Technical Manager. The post holder leads a team of 5 local field engineers and is responsible for leading the development and design of products and identifying manufacturing resources to localize production. They will also assist in the rapid repair work during the deployment of Field Ready's Mobile Makerspace field workshop in post-disaster contexts. They will support colleagues in the Pacific region with technical advice, manage project resources, and build relationships with potential partners. They will work closely with the Regional Program Manager (Pacific) to engage with NGOs, donors, academia, manufacturers, and the private sector to identify new partnerships and project ideas in the Pacific. They will work with the global fundraising team to pursue opportunities in a systematic and professional manner.

An effective Senior Project Engineer will combine relevant technical know-how with excellent interpersonal skills and proven self-drive, to contribute to the development of Pacific Program.

This role is initially for 1.75 years (21 months) for the period from 1 March 2024 to 30 Nov 2025 commencing from the date of engagement, although the role may be extended by mutual agreement dependant on funding. The applicant will be based in Suva, Fiji. Flights from successful applicant's home country and accommodation will be provided. Reporting to Field Ready's Regional Technical Manager based in Philippines, the postholder is expected to work effectively as part of a dynamic and diverse team.

RESPONSIBILITIES

The following are illustrative responsibilities that are expected to evolve over time, depending on organizational and programmatic needs. The responsibilities include but are not limited to:

- 1) Provide technical advice onsite to the Pacific technical team on product design, digital fabrication, testing, manufacturing, and product improvement.
- 2) Lead and manage a team of at least 5 local Field Engineers.
- 3) Assist in product documentation and data collection of the distributed products in the Pacific.
- 4) Review and feedback on production performance improvements.
- 5) Work with the Regional Technical Manager and Field Engineers to establish supply chain, and map manufacturers of Aid Items in the Pacific.
- 6) Help to facilitate community activities or stakeholder meetings that require technical or design expertise.
- 7) Lead the development and deployment activities of Field Ready's Mobile Makerspace in each country.
- 8) Lead and manage the activities Technical Team in the Pacific Program.
- 9) Facilitate and conduct technical workshops that will be delivered within the program.
- 10) Write reports of the technical activities of the program.
- 11) Work with the Regional Program Manager in aligning the deliverables of the program technically.
- 12) Analyse community requirements from assessments and develop technical solutions to meet those needs.

REQUIREMENTS & QUALIFICATIONS

The following are the qualifications needed to apply for this position:

- 1) Bachelor's degree in Engineering or related field.
- 2) 5+ years of experience in the engineering and design field.
- 3) Demonstrated knowledge of product development and manufacturing (manual & digital).
- 4) Strong analytical, troubleshooting, and problem-solving skills.
- 5) Expertise in coordinating and facilitating focus group discussions, trainings, surveys/data collection, workshops, and work planning.
- 6) Able to multi-task and prioritize tasks effectively.
- 7) Strong organizational and project management skills.
- 8) Demonstrated ability in engaging with government, academic, and private sector stakeholders in preferred areas of product innovation, manufacturing, and humanitarian response.
- 9) Ability to work throughout the South Pacific region as needed and conduct regular local/regional travel through both private and public transportation options.
- 10) Be based in Suva, Fiji during the duration of the program.
- 11) Experience in using digital fabrication equipment (ie. 3D Printers and Laser Cutters) and computer aided manufacturing software (CAM).
- 12) Experience in using 3D CAD Software. (Solidworks modelling and simulation proficiency is highly recommended).
- 13) Proficient in Microsoft Office Tools and knowledge in Sharepoint.

- 14) Be skilled in the use of a wide range of manufacturing equipment and experience in practical engineering and a first-rate 'maker' with hands-on making, equipment maintenance/troubleshooting, CAD, concept generation, product development & prototyping experience.
- 15) The ability to effectively manage technical projects throughout their life cycle, backed up by project management experience.
- 16) The ability to effectively manage a small team of engineers, apprentices, trainees and volunteers.
- 17) The ability to undertake technical work independently in a potentially challenging environment.
- 18) The ability to conduct needs assessments to identify need and engage with users/beneficiaries which may lead to innovative engineering opportunities.
- 19) Knowledge of or experience in a humanitarian or development setting and an understanding of the principles that govern humanitarian action.

REQUIRED SKILLS

- English Language: excellent written and interpersonal communication in English.
- Practical experience and or knowledge of working in the manufacturing, design or engineering sector.
- Location: ability and willingness to travel around the region for periods up to two months at a time.

DESIRABLE CRITERIA

- Training: Experience of delivering technical training.
- Humanitarian work: experience working with vulnerable groups such as people with disabilities. Familiarity in working with institutional partners and donor grants (e.g., USAID/BHA) is a distinct advantage.
- Networks: strong connections in the maker community or the manufacturing sector and ability to use them for the furtherance of Field Ready's vision.
- Education: Professional engineering qualifications
- Knowledge and experience in the South Pacific Region

How to Apply:

Applications will be accepted until **December 31st, 2023** (5pm, Fiji time).

Interested candidates should submit a cover letter and CV in English to the following email address: **hr.pacific@fieldready.org**

Please state **"Application – Senior Project Engineer"** in the subject line of the email.