

# EcoSwell - Volunteer job description

## Information about the Charity:

EcoSwell works with local communities in rural and semi-rural Peru to design and implement renewable energy, water and sanitation, public health, research and ecosystem restoration projects in marginalised areas. In this manner they seek to help propel sustainable development within these communities, implementing the United Nations Sustainable Development Goals in practice.

For more information about the charity, please visit [www.ecoswell.org](http://www.ecoswell.org)

## Information about the project:

EcoSwell is looking for a volunteer to support the implementation of their Renewable Energy project portfolio from September 2023 for six months. This portfolio includes several projects, the main ones are resilient medical centres in the City of Talara and other towns in the region (Nexans Foundation project), Solar Distiller design and building, improved cookstove design and building, off-grid household PV system installations and on-grid household energy education. Other initiatives also include PV system installations with the Fishermen Guild and in the EcoSwell house, among other projects.

The volunteers will work with volunteer interns within the communities and ten members of EcoSwell staff. The tasks and responsibilities that the volunteers will carry out include:

- Help with the technical design and sizing of PV systems for Medical Centres in the region. This ranges from creating load charts to defining the best arrangement of solar modules, inverters, charge controllers, batteries, etc.
- Supervise the installation of solar modules and PV systems in Medical Centres, off-grid households, the EcoSwell house, etc.
- Keep an organized record of all documentation, calculations and plans made during project implementation.
- Help guide volunteer interns from the EcoSwell volunteer internship program in the development of their renewable energy projects.
- Help brainstorm designs, build, and test prototypes of technologies developed in the EcoSwell renewable energy program.
- Write project design reports or final operations and maintenance manuals for projects.
- Assist current Renewable Energy Supervisor with project tasks and deliverables.
- Liaise with local stakeholders during the implementation of projects.
- Help write grant or funding applications that are being worked on
- Propose any improvements to designs, projects and processes.
- Reporting of projects (technically and financially)

- Ensure the creation of marketing content for our renewable energy projects in coordination with our Communications Dept.
- Scope potential opportunities for funding and partnerships for future projects
- Work alongside the current EcoSwell Renewable Energy Supervisor on the planning, execution and reporting of renewable energy projects that are being worked on locally. The priority projects are the Resilient Medical Centres, Solar Distillers, Improved Cookstoves and Off-grid house PV system installations.
- Lead teams of volunteer-interns in Lobitos working on these projects and report weekly to EcoSwells Director on progress made
- Liaising with project sponsors, suppliers, partners and community members as necessary.
- Ensure volunteer interns, local community members and any project participants are abiding at all times by safety protocols and procedures
- Focus on serving as a positive and enthusiastic role model in order to create a healthy and positive dynamic within the EcoSwell house and work environments

**Skills required/other:**

- Engineering background regarding renewable energy.
- Team management and organisational skills
- Intermediate/Advanced Spanish
- Must be proactive and good at working independently and as part of a team
- Interest, knowledge and experience in bio-engineering approaches (bioremediation/phytoremediation with plants) is preferable
- Positive attitude and willingness to learn and research
- Ability to multitask
- Good at problem solving