

Job Vacancy Description:  
**Solar PV Design Engineer**  
*Reference: 24.10*

## 1. Who we are

Trama TecnoAmbiental (TTA), with headquarters in Barcelona (Spain), is an international **engineering and consulting** firm in business since 1986 in the field of **renewable energies** and specialized in distributed generation and energy access for development. TTA's multidisciplinary team has comprehensive experience at both technical and management levels and has been exposed to many international projects all over the world.

TTA has been **pioneer** of **renewable energy-based** microgrids, 100% and/or hybrid, both in concept development, design, and engineering, as well as deployment and dissemination with a clear vision and an approach key to **sustainability and social responsibility**.

Further detailed information at: [www.tta.com.es/en](http://www.tta.com.es/en)

## 2. Job description and responsibilities

TTA is seeking a **Solar PV Design Engineer**, ideally specialized in PV-pumping systems, to join the **Technical and Construction Department of TTA**. The Design Engineer will develop design tasks in grid-connected and stand-alone renewable energy layouts for electrification projects worldwide.

The **Design Engineer** will work in the following areas, listed according to priority:

1. **Plant design:** Work in technical designs and simulations, from tens of kW up to the MW range as well as on low and medium voltage in distribution grids, calculation, layout, bill of quantities, drawings, and technical specification writing of renewable energy-based solutions, with a strong focus on mini grids. This includes but not limited to PV-pumping systems and hydraulic circuits, mini-grid plants, energy storage, control and monitoring systems, transformation, and distribution lines layout.
2. **Owner's engineering:** Advisory services to Institutional and private clients on project development, operation, tender preparation, and construction. Review and evaluation of technical and financial proposals by contractors including provision of support in the negotiations with winning bidders.
3. **Project proposal preparation:** Support the Business Development department in preparing proposals, in particular preparing technical methodologies, bills of materials, budgets, and technical drawings for proposals.

### 3. Profile

The ideal candidate for this position **will have** the following competences:

1. **Educational Background.** A Master's degree in electric or mechanical engineering or similar is required.
2. **Previous Work Experience.** 5 years of experience in electrical engineering in solar PV and other sustainable energy sources, with special experience in PV-pumping.
3. **Languages.** Fluency in **English and French** is required.
4. **Computer Skills.** Excellent command of Microsoft Word, Excel, and AutoCAD.
5. **Availability to travel** 25% of the time to project sites in Africa, Latin America, and Pacific.

It **would be desirable** for the candidate to have the following aptitudes:

1. **Educational Background.** Specific education in renewable energies, hydraulic systems mechanics, sustainable energy, and/or energy access will be an advantage.
2. **International Experience.** Experience in developing countries.
3. **Previous Work Experience.** Water-disinfection systems and/or in MW range clean-energy generation and low and medium voltage distribution lines.
4. **Interests.** Passionate about sustainable energy and water infrastructure; Open to travel internationally; Interested in development.
5. **Computer Skills.** Experience with simulation software i.e. HOMER, PV SYST, or similar.
6. **Other Skills:**
  - Ability to work with minimum supervision and multiple project tasks simultaneously.
  - Analytical skills, efficient designing and implementing of processes.
  - Methodical and well-organized.
  - Ability and proven experience to think creatively, learn quickly, and develop innovative solutions involving electrical and mechanical challenges.
  - Cross-cultural communication and interpersonal skills.

### 4. Conditions

- **Salary and benefits:** TTA offers a multicultural, friendly working environment with **remote work** possibilities, **flexible working hours**, teamwork, and constant learning. Salary to be defined depending on candidate's qualifications.
- **Starting date:** Immediate.
- **Location:** Barcelona (Spain). Remote work can be considered.

**Interested?** → Please click on the following link where you will find the procedure to follow (upload CV and fill-in form): <https://goo.gl/forms/i05SOg847G7bsybE3>

Only shortlisted candidates will be contacted.