

Job Vacancy Description:  
**Energy Access Design Engineer**  
*Reference: 25.04*

## 1. Who we are

Trama TecnoAmbiental S.L. (TTA), with headquarters in Barcelona (Spain), is an international **engineering and consulting** firm in business since 1986 in the field of **energy access**. TTA's multidisciplinary team has comprehensive experience at both technical and management levels and has worked in hundreds of international projects worldwide.

We provide opportunities and a supportive space for employees to express themselves openly and **free of judgement** regarding their tasks and their work environment. We are fully committed to making our processes and **diversity, equity and inclusion** pillars of a global company such as ours. We analyze requirements, tasks and descriptions with a critical eye to ensure the equity, fairness and inclusiveness of all our processes and structures.

TTA has pioneered the advancement of decentralized electrification solutions such as 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 a holistic approach key to **environmental 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 seeks an **Energy Access Design Engineer** to join the **Technical Design and Construction Team**. The Energy Access Design Engineer will develop design tasks in decentralized electrification solutions and grid-connected project layouts for electrification projects worldwide, forming part of TTA's efforts for energy access, mostly through solar energy.

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

1. **Plant design:** Work in technical designs and simulations, in the range of tens of kW up to MW, calculation of electrical protections and conductor sizing, layouts, bill of quantities, drawings, and technical specification writing of renewable energy-based decentralized solutions. This includes but is not limited to stand-alone **solar PV** systems, mini-grid plants, energy storage, control and monitoring systems, grid-connected small PV plants, transformation, PV-pumping systems, and electromobility.
2. **Owner's engineering:** Advisory services to Institutional and private clients on project development, construction and operation. Review and evaluation of technical proposals, including provision of support in the negotiations with winning bidders.
3. **Project proposal preparation:** Support the Business Development department in preparing proposals, particularly technical methodologies, bills of materials, budgets, and technical drawings.

### 3. Profile

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

1. **Educational Background.** A degree in electrical engineering or similar is required, a master's degree is desirable but NOT mandatory.
2. **Previous Work Experience.** At least 3 years of experience in electrical engineering in solar PV and other renewable energy sources, ideally with decentralized solutions mostly.
3. **Languages.** Fluency in **English and French.**
4. **Computer Skills.** Advanced command of AutoCAD and simulation software like HOMER, Helioscope, or similar. Full competence in Office.
5. **Availability to travel** 25% of the time to project sites in Africa, Latin America, or 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 working internationally, especially in developing countries.
3. **Previous Work Experience.** Utility-scale PV plant design, stand-alone PV plant design, on-grid PV plant design, PV construction supervision.
4. **Language:** Catalan or Spanish.
5. **Interests.** Passionate about renewable energy technologies, environmental stewardship, and social development.
6. **Computer Skills.** Experience with power system analysis software e.g. Power Factory.
7. **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 & people-oriented working environment with **remote work** possibilities, **flexible working hours**, teamwork, and continuous learning opportunities. Salary to be defined depending on candidate's qualifications.
- **Starting date:** Immediate.
- **Location:** Based in Barcelona (Spain).

**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.