**Job Summary: Solar Design Engineer**

We are looking for a skilled **Solar Design Engineer** to join our team. The ideal candidate will be responsible for designing and optimizing solar PV systems for residential, commercial, and industrial applications. This role involves site assessment, system modeling, electrical and structural design, and compliance with industry standards.

**Key Responsibilities:**

* Design **grid-tied, off-grid, and hybrid** solar PV systems based on client requirements.
* Perform **site assessments** and feasibility studies using tools like **Helioscope, PVsyst, and AutoCAD**.
* Create **single-line diagrams (SLD), layouts, and electrical schematics**.
* Calculate **system sizing, energy yield, shading analysis, and load assessments**.
* Ensure designs comply with **local regulations, NEC, IEC, and other industry standards**.
* Collaborate with project managers, contractors, and clients to optimize system performance.
* Conduct **cost-benefit analysis** and assist in proposal preparation.
* Stay updated with **emerging solar technologies** and industry trends.

**Required Skills & Qualifications:**

* **Bachelor’s degree** in Electrical, Mechanical, Renewable Energy, or a related field.
* 3 to 5 years of experience in **solar PV design** and engineering.
* Proficiency in **PVsyst, AutoCAD, Helioscope, SketchUp, and other design tools**.
* Strong understanding of **electrical systems, power distribution, and load calculations**.
* Familiarity with **battery storage systems, inverters, and BOS components**.
* Knowledge of **local and international solar regulations and safety standards**.
* Strong **analytical and problem-solving** skills.
* Excellent **communication and teamwork** abilities.

**Preferred Qualifications:**

* Experience with **solar EPC (Engineering, Procurement, and Construction) projects**.
* Knowledge of **SCADA systems, microgrid design, and IoT integration**.