



**Position:** Project Engineer 1 – Residential (PE1-Resi)

**Reports to:** Dir. of Engineering

**FLSA Status:** Exempt / Salary

**Status:** Full-Time

**Compensation:** \$60K+ annual salary (varies by experience)

**Benefits:** Medical, dental & more

The Project Engineer (PE1-Resi) is responsible for supporting the design of code-compliant residential solar photovoltaic & battery storage systems following engineering department policy. An understanding of structural and electrical engineering concepts and calculations is a necessity for this position. This is a fast paced yet detail-oriented position.

## **Responsibilities and Duties**

- Drive to completion Project Design Plan sets consisting of array layout, single line diagram, bill of materials, in a timely manner and within quality threshold
- Create, review and modify drawing sets in AutoCAD and custom software tools
- Coordinate with Site Surveyors, Project Management, Electricians, and Sales teams to complete designs meeting the customers' expectations with strict deadlines
- Complete electrical and structural designs for photovoltaic projects within a production-based environment
- Research, document and comply with local and national code requirements in project jurisdictions
- Create project bills of material
- Assist in developing and documenting industry best practices, standards and guidelines
- Utilize software systems to record progress of various tasks
- Organizing photos and documentation in data server
- Host pre-construction 'design' meetings with electrical and roofing teams to prepare for upcoming projects
- Communicate with the Warehouse team to ensure project related equipment is procured prior to construction
- After construction, provide support as required to create as-built drawings and provide placards for the Commissioning & Service technician and take projects to closeout

525 Kokea Street, #C6, Honolulu, Hawaii 96817

[www.SunspearEnergy.com](http://www.SunspearEnergy.com)

CT - 35914



- Any other project engineering required items to ensure the success of a construction project
- Be open to change, creative, optimistic, and set the example for team culture
- Work to meet and exceed design Key Performance Indicators (KPI) including, but not limited to, quality, output, cycle time and difficulty
- Participate in training modules, including but not limited to, SunPower Training, Span training, Tesla, and SolarEdge training and more to ensure constant learning goals to increase solar knowledge base
- Stay up to date with the evolving Solar PV and Battery landscape and be constantly prepared for industry related changes

### **Minimum Qualifications:**

- Bachelor's degree in an engineering related field required
- OR Bachelor's degree in non-engineering field and 1 year of solar industry experience required
- OR Associate's degree in design related field and 1 year of solar design (or 2 years of solar industry) experience required
- OR NABCEP (PV Installation Professional) certification and 2 years of solar industry experience required
- Proficient in AutoCAD, Microsoft Office and other software tools
- Critical thinking and ability to solve problems
- Demonstrate good judgment and analytical skills
- High attention to detail
- Ability to prioritize and manage multiple projects in a fast-paced environment
- Ability to effectively communicate with engineering, construction, and customer facing teams
- Excellent computing skills
- Strong desire to change the way our world is powered!
- Experience with designing and/or constructing solar electric systems
- Strong working knowledge of residential framing, roofing, and electrical
- Knowledge of National Electrical Code and local building codes
- Must be able to work at heights including on rooftops, climbing ladders, and stairs
- At times to verify field conditions, must be able to work in extreme environments (example: hot sun, cold, crawl spaces, attic etc.)

525 Kokea Street, #C6, Honolulu, Hawaii 96817

[www.SunspearEnergy.com](http://www.SunspearEnergy.com)

CT - 35914



## **Preferred Qualifications:**

- Technical knowledge of solar system installations
- NABCEP certification is a plus
- Understand the NEC electrical code specifically relating to Solar PV Equipment in sections 690 and 705
- Understand how to interpret one-line and three-line electrical diagrams and create single-line and three-line diagrams
- Understand how PV system interconnections for 100A, 200A and 400A services
- 3 years of experience in the solar industry preferred
- Experience with Tesla Powerwall 2, Generac PWRcell, Enphase IQ Battery System, SunPower Sunvault
- Experience in understanding the flashings required for roof work (including metal, concrete tile, clay tile, comp, shingle, or wood shake), HVAC, metal fabrication, general construction or carpentry preferred but not required.
- Experience with AutoCAD and CRM software tools
- Experience in creating material takeoffs

## **Why start an exciting career with SunSpear?**

- Be part of a fast-growing company, within a fast-growing industry that provides a valuable service of helping clients save money while simultaneously promoting sustainability.
- Company growth opens doors for career advancement, and we love to promote from within.
- A mentorship environment with a strong team of industry veterans to learn from and who will encourage you to be successful!
- Bonuses for sending us referrals!
- As a company, we have built a positive and family-style culture within the organization; we pride ourselves on a fun team atmosphere with result-based incentives.

## **Equal Employment Opportunity Policy**

We provide equal employment opportunities (EEO) to all applicants for employment without regard to race, color, religion, sex, national origin, age, disability or genetics. In addition to federal law requirements, we comply with applicable state and local laws governing nondiscrimination in employment.

525 Kokea Street, #C6, Honolulu, Hawaii 96817

[www.SunspearEnergy.com](http://www.SunspearEnergy.com)

CT - 35914