JOB TITLE: Engineering Intern

Summary:
We are looking for a passionate engineering student to join IronRidge’s team as our summer intern. As an engineering intern, you will become an integral member of our Products Group, working both collaboratively alongside other engineers and also independently on assigned projects. Some of your core responsibilities will involve planning, executing, and documenting tests to support the qualification of new products to assess long-term performance in harsh outdoor environments, as well as to comply with various industry standards. As a member of IronRidge, you must share our enthusiasm for our Mission of developing and supporting innovative solar BOS solutions that make our customers’ lives easier, our products more intuitive, and solar power beautiful and ubiquitous.

Essential Duties and Responsibilities:

- Create and execute mechanical, electrical, and environmental tests, then interpret the data to write concise test reports
- Learn to use and maintain testing equipment including environmental chambers, tensile testers, load cells, power supplies, volt meters, and data acquisition units
- Assemble and disassemble solar mounting setups
- Assist in the design and construction of test fixtures
- Participate in the product development process and in brainstorm sessions
- Support prototype needs for the Products Group from internal and external suppliers
- Coordinate test programs with external labs

Required:

- Passionate about engineering and solving real problems, and a willingness to explore unfamiliar engineering territories
- Working towards a BS in Materials, Mechanical, Structural, or related engineering discipline
- Demonstrable knowledge of the fundamentals of mechanics and materials
- A desire to work in a dynamic team environment to think outside the box and solve traditional problems in new and better ways
- Strong interpersonal skills and written communication skills

Preferred:

- Previous experience in solar or related industries, or within other professional engineering environments
- Experience writing reports and knowledge in statistical methods and design of experiments
- Experience with testing equipment, including tensile testers, load cells, power supplies, volt meters, and data acquisition units
- Construction and fabrication experience, and knowledge of common structural materials including steel, aluminum, wood, plastics, etc.
- Experience with basic shop tools, i.e. saw, drill press, bench grinder, hand tools, etc.
- Working knowledge of CAD software (SolidWorks, Autodesk Inventor, etc.) and Microsoft Office (Word, Excel, etc.)
- Conceptual familiarity with the principles of solar system design, such as electrical grounding/bonding, foundations, and load paths
**Work Location:**

This position is based in the Hayward, California office of IronRidge, Inc.

**Physical Demands:**

This role may require regular travel to project sites, to other IronRidge office locations, and interaction with a wide range of personnel and site conditions. The employee is regularly required to sit, stand, walk, crawl, kneel, and climb for extended periods, as well as use his/her hands to lift, handle, and feel various materials, components, and assemblies. The employee will be required to use a wide range of power tools safely and confidently. The employee must regularly lift and/or move up to 10 pounds, frequently lift and/or move up to 25 pounds and occasionally lift and/or move up to 50 pounds.