



Mechanical Engineer

About American Reliance Inc.

With over two decades of experience, American Reliance Inc. (AMREL) has acquired novel technologies to capture the emerging markets of rugged computers, electronic test equipment, medical equipment, and solar energy. Armed with the right tools, AMREL is positioned for tremendous growth over the next three years to become a public company by 2013. This is a rare, explosive growth opportunity for entrepreneurial-spirited individuals who are enthusiastic about diverse emerging industries. Your total commitment will result in the opportunity to reap generous rewards from the overall success of the company.

The Position

Based out of El Monte, California, AMREL is seeking a seasoned Mechanical Engineer with strong experience and background. We are looking for an ambitious, motivated, and energetic individual who can leverage their knowledge and experience in mechanical design and engineering for our Renewable Energy division.

Responsibilities

- Responsible for all phases of mechanical hardware design, including planning, requirement analysis, conceptual/preliminary/detail design, thermal and vibration analysis, documentation, integration and test
- Mechanical system architecture development, including design/drawing creation/modification, weight, center of gravity, thermal analysis, prototype/production integration support
- Perform analyses (temperature, force, tolerance analysis, thermal and stress analysis, basic shock and vibration)
- BOMs, drawing packages, materials specifications and communication with sheet metal fabrication suppliers

Qualifications

- BS degree in Mechanical Engineering
- 7-10 years of mechanical design experience
- Expert skills in 3D mechanical design programs, AutoCAD or SolidWorks
- Experience in designing ruggedized & weatherproof (NEMA rated) mechanical enclosures (experience in sheet metal fabrication preferred)
- Experience in mechanical design, system integration, hardware verification, and transfer to manufacturing
- Working experience and knowledge of enclosure design to meet environmental, vibration and shock compliance testing standards (MIL-STD810 experience preferred)



- Ability to incorporate innovative design features and ideas to ensure compliance with requirements
- Hands-on experience with machine shop tools & equipment (lathes, milling/CNC machine, grinders & others) to develop mechanical prototypes
- Strong background and working knowledge of machine shop principles