



## Title: Mechanical Engineer Reports to: Chief Engineer/Engineering Manager

### Company and Position Description

Array Technologies, Inc. is the global leader in solar tracking and is experiencing explosive growth built on our best-in-class technology and dynamic team. Array is seeking highly skilled, self-motivated people who want to accelerate the world's adoption of clean and economical energy. If you meet these criteria, please consider the company that has been leading the solar energy revolution for nearly three decades.

Are you passionate about clean technology? Do you have a need to organize things wherever you go? Do you find fulfillment in knowing you are standing behind a 100% tested, rock-solid product? ATI is currently seeking a Mechanical Engineer to help take us to the next level of product reliability. In this position you will play a critical role in creating and vetting innovative solar tracking products that change the way energy works in the world.

The Mechanical Engineer will be responsible for performing design and analysis to support research and development of Array Technologies solar tracker components, as well as other products. The Mechanical Engineer will be responsible for concept phase, design activities, reviews, testing, and reports on design's progress. The ideal candidate will have excellent analysis skills, mechanical engineering experience and a good understanding of mechanical and structural products. As part of the larger engineering group, the candidate will work on a team to create and test new product designs and formulate manufacturing specifications. The team will identify company goals, integrate market research and perform design analyses. The successful candidate will conduct research, design and testing procedures and draft specifications for manufacturing, creating models or samples and fine-tuning designs until they are ready for production. This position is full-time and exempt.

### Duties and Responsibilities

- Assist in the creation and release of Product Requirements, Design Specifications, and Design Descriptions for assigned designs, applicable standards and procedures.
- Responsible for recording and sharing technical knowledge gained with colleagues.
- Thoroughly document designs, research, and test results such that they can be used and referenced by other engineers and in future projects.
- Evaluate existing products and identify opportunities for product improvements in areas including design, cost, and manufacturability.
- Identify the needs and goals for a new product, from function to aesthetics.
- Conduct market research to evaluate market needs, existing competition, and potential costs.
- Responsible for design/development activities which may include leading, participating in, coordinating or supporting: concept, planning, design and execution stages, risk assessment, prototyping/testing, design reviews, verification & validation
- Create designs using SolidWorks and AutoCAD to fabricate models that can be tested.
- Be willing to become learn new engineering analysis tools by on the job training and possibly off-site formal training
- Experiment with and analyze different materials, manufacturing processes, design tolerances, and other factors in the developmental process.
- Evaluate the feasibility of selected concepts to meet functional, mechanical, structural, and customer needs.
- Evaluate the feasibility of concepts and/or prototypes through engineering testing and analysis consistent with specifications and customer expectations.
- Generate design, testing, and manufacturing documents in compliance with company requirements.
- Obtain components/supplies/equipment to support prototype assembly and conduct preliminary OEM vendor assessment/selection.
- Assess reliability, safety, performance, and risk of new designs & methodologies; coordinate and communicate development schedules and compatibility or design issues throughout the team continuously.



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- Review product documentation for accuracy.
- Evaluate product non-conformances and recommend design modifications

#### **Required Knowledge, Skills, and Abilities**

- Design experience with structural components, hardware, gearing and/or drivetrains required.
- Skilled in structural and mechanical calculations including Finite Element Analysis methods.
- Strong knowledge of manufacturing processes such as roll forming, press braking, and other sheet and plate metal processes.
- Must be able to analyze, optimize, and compare/contrast complex issues and systems for function and cost.
- Self-starter able to work multiple projects with little supervision.
- Communicate effectively with engineers, drafters, and others within the company as needed. Work well within a team.
- Strong ability to present and defend your designs/analysis through good design review practices.
- Experience in the solar industry a plus.
- Computer skills including Microsoft Word, Excel, PowerPoint, and SolidWorks minimum. Programming skills a plus.
- Design skills in FEA, DFA, DFM, design for cost.
- Ability to build prototypes, setup tests and run experiments quickly.
- Must be able to successfully pass a pre-employment drug test and background check.

#### **Education and Experience**

- BA/BS degree in Mechanical Engineering. Master's degree a plus.
- 5-+ years' direct experience in mechanical/structural engineering field.
- Working knowledge of Finite Element Analysis methods required