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**Title** Senior Innovation/Product Development Engineer

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**Reports to** VP of Engineering

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**Job Description**

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Array Technologies, Inc. (ATI) is the global leader in utility-scale solar tracking and experiencing explosive growth built on our best-in-class technology and dynamic team. ATI 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 27 years.

The Senior Innovation/Product Development Engineer will create and test new product designs and formulate manufacturing specifications. They will identify company goals, integrate market research and perform design analyses. The successful candidate will oversee research and design teams, lead testing procedures and draft specifications for manufacturing and direct the creation of models or samples and fine-tune designs until they are ready for production. This position is full-time and exempt.

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**Duties and Responsibilities**

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- Evaluate current designs for product improvements in areas including design, cost, and manufacturability.
  - Identify the needs and goals for a new product, from function to aesthetics.
  - Develop production tests to verify product performance, monitor initial product yield, and quality and drive improvement efforts. Plan and execute product qualifications to ensure reliability. Coordinate activities for manufacturing release to meet scheduled milestones.
  - Conduct market research and work with material suppliers to evaluate market needs, existing competition, and potential costs.
  - Create designs using SolidWorks and AutoCAD to fabricate models that can be tested.
  - 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, clinical, and customer needs.
  - Evaluate the feasibility of concepts and/or prototypes through engineering testing and analysis consistent with customer expectation.
  - Develop timelines and cost estimates for development tasks and appraise management of performance against plan.
  - Generate design history documents in compliance with company requirements.
  - Evaluate, document, and implement potential design and process changes to improve product performance, manufacturability, safety or cost consistent with company process.
  - 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.
  - Oversee testing and theoretical analysis of products to determine product safety and efficacy.
  - Maintain products and make changes using SAP.
  - Other duties as assigned.
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**Required Knowledge, Skills, and Abilities**

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- Design experience with structural components and hardware, gearing and/or drivetrains required.
  - Ability to work on multiple projects concurrently a must.
  - Must have good organizational and time-management skills.
  - Communicate effectively with engineers, drafters, and others within the company as needed. Work well within a team.
  - Experience in the solar industry a plus.
  - Computer skills including Microsoft Word, Excel, PowerPoint, and SolidWorks minimum. Programming skills a plus.
  - Design skills such as FEA, DFA, DFM, design for cost, a plus.
  - Ability to setup tests and run experiments quickly.
  - Must be able to successfully pass a pre-employment drug test and background check.
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**Education and Experience**

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- BA/BS degree in Mechanical Engineering. Master's degree a plus.
  - Minimum 5 years' experience in engineering field.
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- 5 years of practical experience in R&D, engineering or manufacturing (not just academic experience).
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