



## **Solar (PV) Design Engineer – July 2016**

Solar Design Engineer will be required to conduct technical designs of photovoltaic solar installations. Solar Design Engineer will also need to analyze the performance of resource and system energy yield calculations, including onsite measurements of factors such as shading and/or wind resources. Installation and use of field monitoring equipment to conduct resource assessments, energy use/output studies, and confirm expected savings/benefits.

Candidate will be capable of providing accurate CAD drawings/specification of a proposed rooftop and groundmount installation and ideally 3 years of applicable experience performing technical work related to renewable energy and/or energy efficiency. Excellent quantitative and organizational skills and a background in engineering, physical science, or equivalent technical expertise is preferred. The ability to work both hands-on and analytically as well as the ability to successfully manage projects.

An ideal candidate will have one or more of the following: Specific experience working with common wind/solar energy related software for use in resource assessment and system modeling. Knowledge of computer based drafting software, surveying techniques, permitting, and O&M services related to renewable energy projects. Knowledge of national/international codes and standards as applied to renewable energy systems/projects.

### **Essential Duties Include but are not limited to:**

- Conduct rooftop inspections with roof consultant and structural/electrical engineers
- Provide technical support to sales such as array layout details, modifications, expected yields and possible design challenges
- Managing the O&M services and demonstrate the ability to do onsite diagnosis prior to dispatching the service team.
- Accurately design functional array as specified by client on AutoCAD or equivalent program
- Coordinate and provide customer education if needed
- Complete full site feasibility reports which will include shading studies, output calculations, onsite measurements, proposed product details, electrical design details, current state of rooftop and process' to be completed for a fully operational solar (PV) array.
- Assist Project and Field Management staff with technical troubleshooting and design details
- Responsible to assist other AMP staff to determine the optimal array designs and materials to be used for each project.
- Develop and evaluate new products to increase value, reduce cost and improve reliability for PV systems for commercial, residential, and distribution divisions.
- Ability to write concise technical reports

### **Education and Experience**

- At least 3 years of applicable experience performing technical work related to renewable energy and/or energy efficiency is preferable
- Any additional experience with electrical systems is preferred.
- Any post secondary courses in photovoltaic systems, or renewable resource applications is preferred.
- Competence in AutoCAD is mandatory
- Proficient in Microsoft Excel and Microsoft Word. Knowledge of Microsoft Access
- Proficient in PVsyst, Sketch up and Helioscope
- B.Sc.E degree in Mechanical or Electrical Engineering or related discipline preferred
- Knowledge of photovoltaic systems, NEC/CSA requirements, construction practices
- Demonstrated ability to lead cross functional teams

## Qualifications

- Strong communication skills
- Team player
- Ability to effectively prioritize and execute tasks in a high-pressure environment is crucial.
- Must be able to learn, understand, and apply new technologies
- Occasional domestic travel may be required
- Driver's [G Class](#) license and access to vehicle is required
- Professional and dependable and able to adapt to a fast-paced industry

Please send your cover letter and resume to Taylor Dunn at [tdunn@ampsolargroup.com](mailto:tdunn@ampsolargroup.com). Applications will be assessed as received and the position filled once a suitable candidate has been identified.

We thank all applicants for their interest; however only candidates selected for interview will be contacted. AMP Solar Group is an Equal Opportunity Employer.