

# Electrical Engineer

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## Job Description

### Job overview

Complete the design and engineering of solar photovoltaic (PV) systems in accordance with all relevant codes, specifications, and standards. This position will report to the Engineering Manager.

### Duties and responsibilities

- Complete AC and DC design of photovoltaic systems including interconnection with utility in accordance with the National Electric Code, and all other applicable federal, state and local codes.
- Specify all AC and DC electrical equipment for both low and medium voltage interconnections, including AC combiners, transformers, switchgear etc.
- Perform load flow, short circuit and coordination and arc flash studies.
- Design data acquisition system and performance monitoring for a PV system.
- Provide engineering support during permitting and construction of a project and provide field engineering and assistance to construction management as necessary.
- Provide engineering support to business development team on initial site-walks and for creation of proposals and bid documents.
  
- Develop and support the implementation of relay and utility telemetry settings.
- Stay up-to-date with latest research and development in solar technology, specifically for all new relevant product development.
- Attend meetings with 3rd party reviewers, clients and the Authorities-Having-Jurisdiction (AHJ's).
- Review technical portions of bid documents and provide pricing to the business development team during bid process.
- Conduct equipment evaluation and assist with development of bill-of-materials with the procurement team.
- Perform site visits with electrical subcontractors to create designs (identify key issues, site logistics, conductor routings, electrical equipment placement, electrical room layouts and roof audits, etc.)

### Minimum Qualifications

- BS in Electrical Engineering.
- Two (2) years of experience in the electrical power industry.
- Strong understanding of basic Electrical Engineering principles such as power flow, fault analysis, transformers, operation of electrical equipment such as relays, fuses and circuit breakers.
- Working knowledge of the National Electrical Code (NEC) and the International Building Code (IBC).
- Strong multi-tasking, communication and interpersonal skills.
- Willingness to travel as needed.
- Be comfortable in a fast-paced, ever changing work environment with multiple deliverables.
- Experienced with electrical design and drafting using AutoCAD.

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## Preferred Qualifications

- BS/MS in Electrical Power Engineering.
- Minimum three (3) years of work experience with low voltage & medium-voltage electrical equipment and PV systems.
- Experience using ETAP/ SKM software for power system modeling to conduct short circuit current calculations, arc analysis, coordination studies, etc.
- Experience with SEL relays

ASP offers competitive comprehensive benefits (medical, dental and vision) along with paid holidays/vacation/personal time. We also offer a 401k plan with Company matching.

## About Advanced Solar Products

Advanced Solar Products, Inc., established in 1991, is a premier engineering/construction company in the field of solar energy and related sustainable technologies. ASP is among the oldest and largest installers of solar power systems in the Mid-Atlantic region.

Advanced Solar Products is an innovative and successful company in a fast-growing industry. Its advocacy has been instrumental in the formation of New Jersey's renewable energy program and making the state a leader in the nation in solar energy development. The company is dedicated to the mission of building a sustainable future. We employ people who are passionate about carrying on this mission and wish to work in a supportive, collaborative atmosphere.

*Advanced Solar Products is an Equal Opportunity Employer*

Job Type: Full-time

Pay: \$70,000 to \$90,000 per year, depending on experience.