



## JOB DESCRIPTION

<b>Job Title:</b>	Senior Engineer of Special Projects
<b>Department:</b>	Technical Services - Labs
<b>Position Reports to:</b>	Director – Labs
<b>FLSA Status (Exempt or Non-exempt):</b>	Exempt

### POSITION SUMMARY:

Senior Engineer of Special Projects is responsible for supporting and conducting Independent Engineering Reviews, project commissioning, site assessments, root cause analysis and other technical projects inherent in the assessment, development and upkeep of Photovoltaic power plants. The ideal candidate will have a very strong technical background, PV related and otherwise, be knowledgeable of all aspects of solar PV design, maintenance and repair; as well as have a solid experience in Research and Development. Experience with at least one of the following is essential: industrial automation, AutoCAD, large scale PV system design, computer programming or power electronics. Candidates should be able to demonstrate managing multiple projects simultaneously, and always with an eye toward customer service, both internal and external. Responsibilities include, but are not limited to, assessment and review of PV power plants and associated designs, site testing and commissioning, and providing consulting services. He or she will provide technical support when it comes to higher-level technical questions from Field Service Technicians.

### ESSENTIAL FUNCTIONS:

- Responsibilities include, but are not limited to, assessment and review of PV power plants and associated designs, site testing and commissioning, providing consulting services and special projects.
- Is considered a technical expert for the company, as such is responsible for higher-level technical problem solving. When problems go beyond the ability of Field Technicians and Technical Portfolio Managers, this is where they turn. "Level 2" support.
- Performing and/or assisting in special site assessments, including determination of root causes of system under-performance and development and execution of remediation plans.
- Perform occasional onsite labor in the execution of special projects.
- Provide background research on technical questions both for internal use and for customer use.
- Compiles and analyzes field and lab data.
- Determines scheduling feasibility and possible timelines for projects during the proposal and sales process.
- Performing financial analysis of proposed upgrades and improvements to existing systems.
- Performing and/or assisting in the execution of all aspects of Independent Engineering Reviews of PV power plants, including review of documentation, site inspections and report creation.
- Manages technicians and other engineers in the carrying out of special projects.
- Promotes scalability through understanding the skills of other staff and is available to assist in their improvement.
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- Recognizes need for improvement in existing SOPs and will change or propose changes to the procedures.
- Performs other duties as assigned.

### KNOWLEDGE, SKILLS & ABILITIES:

#### Education and/or Experience

- Masters in Engineering -or-
- 3 years experience in PV plant design and construction + NABCEP Professional certification
- 5 years experience in Project Management
- MV and switchgear implementation experience
- Experience with the basic design and operation of all PV plant components, including: inverters, modules, switchgear, transformers, racking
- Experience with PV performance modeling and analysis.

#### Other Competencies and Requirements

- Excellent interpersonal, verbal and written communication skills are essential.

- Technical writing and research skills are essential.
- Detail oriented, ability to handle multiple projects simultaneously, extremely professional and customer service oriented.
- Key skills include Design of Experiments, site analysis, electrical engineering, basic knowledge of construction, strong organization, and prioritization.
- The ideal candidate will have a strong competency in at least one of the following areas: industrial automation, AutoCAD, large scale PV system design, computer programming or power electronics
- Candidate must be organized and self-motivated, and be able to resolve issues within given time frame
- Must possess excellent analytical, decision-making and problem solving skills.
- Advanced customer experience skills, selling both the department and company's technical expertise.
- Detail oriented, ability to handle multiple projects simultaneously, extremely professional, and customer service oriented
- Proficiency in MS office products.
- 20-30% travel required.

**WORKING CONDITIONS:** Climate controlled office environment during normal business hours. May be subjected to inclement seasonal weather conditions if position calls for traveling to/from various locations for training purposes.

**Hours:** Adhere to scheduled work times. Flexibility, additional hours and weekends may be required to meet business needs.

**Position Location:** Subsidiary location – Tucson, AZ

**Disclaimer**

The preceding job description has been designed to indicate the general nature of work performed; the level of knowledge and skills typically required; and usual working conditions of this position. It is not designed to contain, or be interpreted as, a comprehensive listing of all requirements or responsibilities that may be required by employees in this position.

**Equal Opportunity, Affirmative Action Employer**

Bay4 Technical Services, a subsidiary of Bay4 Energy Services, LLC is an Equal Opportunity, Affirmative Action Employer. We will not discriminate unlawfully against qualified applicants or employees with respect to any term or condition of employment based on race, color, national origin, ancestry, sex, sexual orientation, age, religion, physical or mental disability, marital status, place of birth, military service status, or other basis protected by law.

It is essential for us to work in an atmosphere of friendly cooperation; it is your responsibility to:

- Ask your direct supervisor for an explanation of anything you do not understand.
- Attend orientation class and any training sessions when required.
- Read your job description and Employee Handbook if applicable; sign any required acknowledgment documents and return to Human Resources.
- Ask any questions about these items as well as any information given to you at meetings and through individual or group instructions, which will assist your understanding of this position.

I have read and understand that this is not an employment agreement or a contract. Management has the exclusive right to alter the scope of work within the framework of this job description at any time without prior notice.

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Print Full Name:** \_\_\_\_\_