



**Job Title:** Solar Maintenance Technician

**Location:** Albemarle, NC

**Employment Type:** Regular Full Tim

**Compensation:** \$22.50 - \$35.00 per hour

**Benefits:** Envalence Environmental Services Corporation believes in taking care of its team! We offer Medical, Dental, Vision, 401(k), and Paid Time Off (PTO)

**About the Company:**

Envalence Environmental Services Corporation is a full-service general building contractor based in Albemarle, NC. Although we can handle any project, our focus is in building projects that provide a real return on investment for our clients. We focus on improvements and build outs that will allow the client to extract as much value as possible from their property. We have created a new division to accomplish this, Envalence Energy and Solar Solutions. Through this division we will focus on energy audits, energy efficient upfits, and solar energy generation for residential and commercial properties

**Position Overview:**

As a Solar Maintenance Technician, you will play a crucial role in ensuring the efficient and reliable operation of solar energy systems. Your primary responsibility will be to perform scheduled maintenance, troubleshooting, and repairs on solar photovoltaic (PV) installations, including solar panels, inverters, and associated equipment. You will work as part of a team or independently, depending on the size and complexity of the solar projects. This position requires a strong technical background, attention to detail, and a commitment to safety and environmental sustainability.

**Key Responsibilities:**

1. Maintenance and Inspection: Conduct regular inspections of solar PV systems to identify and address any potential issues, such as equipment malfunctions, shading, or system degradation. Perform routine preventive maintenance tasks to ensure optimal system performance.
2. Troubleshooting and Diagnostics: Investigate and diagnose malfunctions and breakdowns in solar installations, including identifying faulty components and assessing the root causes of performance issues. Troubleshoot and resolve electrical and mechanical problems.
3. Repairs and Replacements: Undertake repairs and component replacements as necessary to restore the functionality and efficiency of solar systems. This may involve fixing or replacing damaged solar panels, inverters, and other system components.
4. Performance Testing: Conduct performance tests and data analysis to assess the energy output and efficiency of solar systems. Use monitoring tools to evaluate system performance and identify areas for improvement.
5. Electrical Work: Perform electrical work, including wiring, connections, and circuit testing, while adhering to local electrical codes and safety standards.



6. Documentation: Maintain detailed records of maintenance activities, inspections, and repairs. Prepare maintenance reports and update relevant databases to track system performance and history.

7. Safety Compliance: Adhere to all safety protocols and guidelines during maintenance activities to ensure a safe working environment. Implement safety measures to protect both personnel and the solar equipment.

8. Environmental Compliance: Follow environmentally responsible practices, including proper handling and disposal of hazardous materials, in accordance with applicable regulations.

9. Team Collaboration: Coordinate with other team members, supervisors, and project managers to schedule maintenance activities and optimize workflow. Collaborate with installation crews during the commissioning of new solar systems.

10. Customer Service: Interact professionally with clients and end-users, addressing their questions and concerns regarding solar system performance and maintenance.

#### **Qualifications and Requirements:**

- Education: High school diploma or equivalent. Additional technical certifications or vocational training in solar technology, electrical systems, or renewable energy are preferred.

- Experience: Previous experience in solar system maintenance, electrical work, or related fields is advantageous.

- Knowledge: Understanding of solar PV systems, electrical components, and power electronics. Familiarity with relevant codes and standards (e.g., NEC, NABCEP) is a plus.

- Technical Skills: Proficiency in using testing equipment, diagnostic tools, and software for solar system analysis. Ability to read and interpret technical drawings and schematics.

- Physical Requirements: Capable of working at heights, in outdoor environments, and lifting heavy equipment as required.

- Safety Consciousness: Strong commitment to safety practices and the ability to follow safety guidelines rigorously.

- Problem-Solving: Analytical mindset and excellent problem-solving skills to identify and address issues promptly.

- Communication: Effective verbal and written communication skills to interact with team members and clients professionally.

- Initiative: Proactive and self-motivated, capable of working independently with minimal supervision.

- Flexibility: Willingness to work irregular hours, including weekends or holidays, when necessary to meet maintenance schedules.

Note: This job description is not exhaustive and may be subject to modifications, as required, to meet the evolving needs of the organization and the solar industry.