



STAR-CENTRE

# Role: Solar PV Design Engineer

## Responsibilities:

1. **System Design:** Develop detailed designs for solar PV systems, including site plans, mechanical racking and attachment plans, single-line electrical diagrams, and interconnection details
2. **Software Utilization:** Use design software such as AutoCAD, PVsyst, Helioscope, and Aurora Solar to create accurate and efficient system layouts
3. **Code Compliance:** Ensure all designs comply with relevant codes and standards, including NEC requirements
4. **Project Coordination:** Collaborate with sales consultants, procurement managers, and other stakeholders to streamline project information and ensure efficient project execution
5. **Technical Support:** Provide engineering support to operations, service, and sales departments as needed
6. **Documentation:** Prepare and review technical reports, bill of materials, and other necessary documentation for project implementation
7. **Site Surveys:** Conduct site surveys to gather necessary data for system design and layout
8. **Problem Solving:** Address and resolve any design-related issues that arise during the project lifecycle

## Qualifications:

- Completed 2nd year of UG
- Pursuing 2nd year of UG and continuous education
- Completed 2nd year of diploma (after 12th)
- Pursuing 2nd year of 2-year diploma after 12th
- 12th pass with 1 year Vocational Education & training
- Completed 3 year diploma after 10th with 1 year relevant experience
- 12th Grade pass with 2 year relevant experience
- 10th Grade pass with 4 year relevant experience

## Skills:

1. **Renewable Energy Knowledge:** Understanding the principles of renewable energy, particularly solar energy, and its applications
2. **CAD Proficiency:** Expertise in computer-aided design (CAD) software to create detailed system layouts and schematics
3. **Solar PV Systems:** In-depth knowledge of solar photovoltaic (PV) systems, including design, installation, and maintenance
4. **Design Software:** Familiarity with specialized design software such as PVsyst, Helioscope, Aurora Solar, and SolidWorks
5. **Electrical Engineering:** Strong understanding of electrical systems, including the ability to create one-line electrical diagrams and perform voltage drop calculations
6. **Project Management:** Ability to manage projects efficiently, including planning, execution, and monitoring