



Job Description: Parametric Model Designer

Parametric Model Designer

Company

Tier 1 Utility Design, Inc. (Tier 1) is a certified woman-owned engineering firm specializing in substation, transmission, distribution, and controls design, supported by advanced laser-scanning and 3D-modeling capabilities. We combine strong engineering fundamentals with efficient, forward-thinking processes to deliver reliable solutions for critical infrastructure.

In partnership with Substation Engineering Company (SECo), we foster a collaborative, engineering-driven environment where ideas are shared, issues are resolved early, and technical excellence is paramount. Our team values ownership, continuous improvement, and a supportive culture that respects work-life balance.

Job Description

As a Parametric Modeling Specialist, you will play a crucial role in our organization's design and development processes. You will be responsible for creating and maintaining parametric models using advanced software tools and techniques, including Autodesk Inventor. Your expertise will help streamline our design workflows, enhance productivity, and drive innovation in substation design.

Main Duties

- Performs basic designs for substations and produces models and drawings following industry standards and guidelines under the direction of more experienced personnel.
- Performs electrical design tasks which regularly require the application of fundamental engineering concepts.
- References information from vendor prints, catalogs, technical manuals, etc.
- Creates intelligent and standardized equipment and structure models which will be used to create substations.
- Assists engineers in preparing input for general purpose computer programs.
- Compiles data and computes quantities.
- Assists in ensuring compliance with required design safety factors, tolerances, and specifications.
- Utilizes LiDAR survey scans to support field verification efforts, and generates models based on field conditions.
- Performs routine checking and/or verification of lower-level staff 's work for technical quality, accuracy and compliance with customer, company, and electrical discipline standards.



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Desired Education, Experience and Training

- Vocational School Certificate or Associates Degree.
- 1+ years of experience in CAD design, with preference in electrical or substation/switchyard projects.
- Knowledgeable in 2D CADD platforms (AutoCAD and MicroStation) and 3D Parametric modeling platforms (Inventor or Solidworks).
- Ability to take marked drawings and produce complete and correct CADD drawings, following the project/client drawing standards.
- Ability to complete tasks in accordance with project procedures and applicable codes and/or standards and discuss routine technical problems and communicate effectively with immediate supervisor and other project personnel.
- Ability to meet deadlines and manage priorities.
- Basic written and verbal communication skills in English.
- Demonstrated commitment to customer service and ability to work in a team-oriented environment.

Full Benefit package

- Medical/Dental/Vision
- Paid Holidays
- PTO (Paid Time Off)
- Group Life Insurance/LTD/AD&D
- 401K
- Voluntary Benefit Plans
- Paid Parental Leave

Position Classification/Compensation

- Non-Exempt
- Competitive pay structure