

**PIKE ELECTRIC  
JOB SPECIFICATION  
PROTECTION & CONTROL DESIGNER**

**Job Responsibilities**

Responsible for the protection & control detailed design for high voltage substation projects through 500kV. Depending upon complexity of the project, the candidate may prepare, provide guidance, or assist in preparing and developing the design deliverables for electric substation projects - including the development of one & three line diagrams; schematics and wiring diagrams; control and relaying panel layouts and specifications; control and relaying panel and equipment wiring diagrams; SCADA system and communications interfaces including RTUs, HMIs, and IEDs; auxiliary system design including batteries and chargers, AC & DC load centers, conduit and cable sizing, backup generator sizing (UPS); and the overall bill of materials. Candidate will be responsible for working closely with other engineering and design team members to develop overall design package and requirements. Other duties include providing direction and guidance to drafters and designers, directing the flow of drafting and designer duties, insuring design schedules are met, including regularly providing project status updates to project engineer. Responsible for handling multiple projects and providing a detailed design package that complies with applicable engineering design standards and all safety codes.

**Qualifications**

**Based on candidate's experience and qualifications, the hiring manager has the option to use the following Designer classifications for this position**

**Designer 2**

*Classification Summary:* This is the second level of the Designer classification. Provide technical expertise to solve more complex problems in a specific area of expertise, with some supervision. Incumbents are expected to develop advanced skills and the ability to work with greater independence.

*Duties & Responsibilities:* Under some direct supervision, in the area of expertise will provide:

- technical expertise and guidance in the identification, analysis and resolution of problems
- effective planning, organizing, estimating, scheduling and monitoring of work activities
- thorough and accurate technical reports, correspondence, documentation, calculations, drawings and sketches
- continuous improvement of job-related, technical and professional knowledge, skills and performance
- effective oral and written communication skills
- accurate records and files
- support of the company's goals and represents the company positively and professionally.

*Required Qualifications:*

- Either a graduate from a college or university with a Bachelor of Science in Engineering Technology (or equivalent), or 2 to 4 years of experience and Associate Degree in Engineering Technology (or equivalent), or 5 to 10 years equivalent experience with no degree.
- Proven Autocad and/or Microstation skills
- Ability to deal with a variety of individuals from various socio-economic, cultural and ethnic backgrounds.
- Good written and oral communication skills.

*Desired Qualifications:*

- Experience in the utility industry.

### Designer 3

*Classification Summary:* This is the third level of the Designer classification. Provide technical expertise to solve more complex problems, and provide leadership skills to manage work in a specific area of expertise, with minimal supervision. Incumbents are expected to develop advanced skills and to have the ability to work independently.

*Duties & Responsibilities:* Under minimal direct supervision, in the area of expertise will provide:

- technical expertise and guidance in the identification, analysis and resolution of problems
- effective planning, organizing, estimating, scheduling and monitoring of work activities
- thorough and accurate technical reports, correspondence, documentation, calculations, drawings and sketches
- continuous improvement of job-related, technical and professional knowledge, skills and performance
- effective oral and written communication skills
- accurate records and files
- support of the company's goals and represents the company positively and professionally

*Required Qualifications:*

- Either - 3 to 5 years experience and Bachelor of Science in Engineering Technology (or equivalent), or 5 to 10 years of experience and Associate Degree in Engineering Technology (or equivalent), or 10 to 15 years equivalent experience with no degree.
- Basic proficiency in Autocad and/or Microstation
- Ability to deal with a variety of individuals from various socio-economic, cultural and ethnic backgrounds.
- Good written and oral communication skills.
- Experience in the utility industry.

*Desired Qualifications:*

- Understanding of basic principles of project management

### Designer 4

*Classification Summary:* This is the fourth level of the Designer classification. Provide technical expertise to solve complex problems, and provide leadership skills to provide project management of work in a specific area of expertise, with minimal supervision and increased latitude for un-reviewed work. Incumbents are expected to have advanced skills and have the ability to work independently.

*Duties & Responsibilities:* Under minimal supervision and with increased latitude for un-reviewed work in the area of expertise will provide:

- technical expertise and guidance in the identification, analysis and resolution of problems
- conducts engineering and related studies
- coach and mentor other Designer classifications
- effective planning, organizing, estimating, scheduling and monitoring of work activities
- thorough and accurate technical reports, correspondence, documentation, calculations, drawings and sketches
- continuous improvement of job-related, technical and professional knowledge, skills and performance
- effective oral and written communication skills
- accurate records and files
- support of the company's goals and represents the company positively and professionally

*Required Qualifications:*

- Either - 8 or more years experience and Bachelor of Science in Engineering Technology (or equivalent), or 10 or more years of experience and Associate Degree in Engineering Technology (or equivalent), or 15 or more years equivalent experience with no degree.
- Basic proficiency in Autocad and/or Microstation
- Ability to deal with a variety of individuals from various socio-economic, cultural and ethnic backgrounds.
- Good written and oral communication skills.
- Experience in the utility industry.

Desired Qualifications:

- Skilled in principles of project management.