



Electrical Power Systems Designer

KMH Engineering is a growing electrical and control engineering firm specializing in design for heavy industry and utilities. We are currently seeking a design professional to join our dynamic team.

Job Details

KMH Engineering is seeking an intermediate to senior Power Systems Designer for our Thunder Bay or Sudbury office. The Power Systems Designer is responsible for design and commissioning activities pertaining to power generation, transmission, and distribution systems projects ranging from 600 Volts to 230 kV. This includes power systems analysis, layout design, equipment specifications, digital protective relay configuration, power monitoring system design and configuration, SCADA system design and configuration, interconnecting wiring and cabling details, construction management, and commissioning support. The Power Systems Designer works within a project team to design efficient and reliable power systems infrastructure. The designer will coordinate their design activities to maintain project schedules and ensure successful project completion. The designer will also assist in preparation of estimates and project proposals.

Responsibilities

- Preparation of substation single line drawings and calculations for fault calculations, grounding, lightning protection, rigid bus bracing, transformer sizing, Transformer arrester selection and insulation coordination calculation, and AC and DC auxiliary system sizing calculations
- Detailed physical design of substations including equipment arrangement, bus works, grounding and lightning protection and liaison with the associated civil, structural and mechanical engineering staff with regard to yards, buildings, foundations, structures, HVAC.
- Detail electrical design of substation including all logic diagrams, single/three line diagrams, protection and controls schematics and connection wiring diagrams
- Delivery of accurate and thorough designs that will meet utility and industry standards and specifications, and meet good engineering practice with excellent constructability. - Protective relay settings with the support of in-house experts.
- Preparation of bill of material for all power systems components.
- Preparation of project specifications for equipment and materials purchase and installation, and support procurement effort.
- Resolving site queries, attending site meetings and performing site inspections during the construction phase of projects.

- Making and maintaining appropriate commitments to project teams and coordinating design activities with multi-disciplined project team members.
- Maintaining good working relationships with internal groups that support projects.
- Maintaining good working relationships with material suppliers, contractors, and any others that affect the quality, schedule and cost of projects.

Requirements

- Technologist or engineer with 5 to 10 years design experience in electrical power systems
- Working experience with design , specification, layout and procurement of high voltage substations and large oil insulated power transformers
- Strong background in substation equipment arrangement, bus works and other physical design
- Design experience in protective relaying and working knowledge of SEL and GE Multilin relays
- Familiarity with control, monitoring and metering including Station Automation and SCADA systems is desirable
- Familiarity with civil and structural requirements for substation design
- Demonstrated ability to complete design tasks on power systems projects
- A strong background in teamwork, meeting commitments, and striving for project success
- Familiarity with the CSA, ANSI, IEEE standards and CEC
- Familiarity with ETAP and/or EasyPower software is a plus.
- Demonstrated ability with AutoCAD is also required.
- A high level of interpersonal communication skills, as well as demonstrated design experience. Occasional travel to remote locations is required.
- Applicant must be a resourceful self-starter and able to work both independently and in a team environment with minimal supervision.

Compensation

Salaries are competitive and will be commensurate with experience. A comprehensive benefits package is offered.

Send Resumes complete with references by mail, fax or e-mail in confidence to:

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