

Senior Traction Power Engineer II/III

Responsibilities

The responsibilities of this position include, but are not limited to:

- Meet schedule and budget constraints per project demands
- Working with third rail systems and load flow study (performing load flow studies and analyzing them)
- Assist rail system manager with proposals
- Engineering and design of traction power AC and DC systems
- Provide schedule input for design tasks and preparation of task budgets
- Develop and review designs and construction drawings
- Identify construction costs trending out of budget
- Manage the preparation of milestone submittals
- Review contractor submittals and support the installation of traction power systems components and software
- Work with OCS engineers to coordinate work on all projects
- Participate in project working meetings and manage meeting minute tasks
- Produce construction specifications
- Develop cost estimates and projections

Minimum Requirements

- Senior Traction Power Engineer II
 - BS degree in Electrical Engineering
 - 13+ years of experience in Electrical/Traction Power design and construction of engineering projects
 - Experience with electrified rail transit systems (AC and DC systems)
 - Knowledge of traction power AC and DC High and Low Voltage systems including relaying, rectifier, distribution and SCADA equipment
 - Knowledge of AREMA and IEEE standards for Traction Power design • Experience working on large transit/railroad projects with Substations, 3rd rail and/or Overhead Contact distribution systems
 - Strong drafting skills in AutoCAD and Microstation
 - Proficient in Microsoft Office (Excel, Word, Power point)
 - Excellent verbal, written, and interpersonal communication skills
 - Demonstrate an established career in rail systems design, traction power, specific to rail transit systems including but not limited to light and heavy rail, streetcar, and commuter rail (such as Amtrak, LIRR, Metro North, NYC Transit and New Jersey transit)
- Senior Traction Power Engineer III
 - BS degree in Electrical Engineering
 - 15+ years of experience in Electrical/Traction Power design and construction of engineering projects
 - Experience with electrified rail transit systems (AC and DC systems)

- Knowledge of traction power AC and DC High and Low Voltage systems including relaying, rectifier, distribution and SCADA equipment
- Knowledge of AREMA and IEEE standards for Traction Power design
- Experience working on large transit/railroad projects with Substations, 3rd rail and/or Overhead Contact distribution systems
- Strong drafting skills in AutoCAD and Microstation
- Proficient in Microsoft Office (Excel, Word, Power point)
- Excellent verbal, written, and interpersonal communication skills
- Demonstrate an established career in rail systems design, traction power, specific to rail transit systems including but not limited to light and heavy rail, streetcar, and commuter rail (such as Amtrak, LIRR, Metro North, NYC Transit and New Jersey transit) Preferred Qualifications
- Registration as a Professional Engineer in the United States
- BIM experience