

# Mid-Level Electrical Designer

## ABOUT B2Q

B2Q Associates is an independent engineering consulting firm specializing in energy efficiency, existing and new building commissioning, and utility infrastructure projects for public sector, commercial, higher education, industrial, and healthcare clients. At B2Q, we have a strong commitment to energy efficiency and making buildings and equipment operate at peak performance.

## JOB DESCRIPTION

We are seeking a skilled and detail-oriented Electrical Designer with 2-5 years of experience in building electrical systems design. The Electrical Designer will be responsible for researching and analyzing customer requirements, producing schematic designs, detailed designs, and construction documents, as well as participating in site visits within the New England region. The ideal candidate will have experience with new construction, complex renovations, and systems such as high/medium voltage, fire alarm, lighting, and renewable energy. Proficiency in Revit and Microsoft Office, particularly MS Excel, is required. Familiarity with the National Electric Code and experience with BIM and clash detection applications are essential. Strong organizational and communication skills, along with technical writing and presentation abilities, are crucial for success in this role. An Engineer in Training certification and willingness to pursue a P.E. license is highly desired. The candidate will work collaboratively with colleagues and vendors, ensuring all equipment procured meets the required specifications.

- Research and analyze customer design requirements to evaluate the feasibility of a project, make design considerations with peer review, help determine costs, and be able to set operations and maintenance requirements for post-design and commissioning.
- Produce Schematic Design, Detailed Design, and Construction Documents with confidence prior to peer review, and understand the QAQC process, with willingness to accept constructive feedback in order to build skills as an aspiring licensed engineer.
- Travel to project sites within the New England region to document existing conditions and perform construction surveys.
- Interface with outside vendors for selection of electrical equipment, and ensure all equipment being procured meets the requirements dictated in specification provided during a bid process.
- Understanding of building a bid tab or bid leveling sheet to compare scope being provided by a vendor or a third-party consultant.
- Ability to modify a specification to meet customer requirements.
- Provide feedback to the team on potential value engineering items.
- Support the engineering design team during commissioning and ability to write procedures for testing of electrical systems.
- Ability to troubleshoot design flaws and show creativity with development of potential solutions.
- Provide feedback to engineering team on lessons learned from prior experiences and ongoing experiences.
- Review product submittals and respond to contractor requests for information.
- Support building electrification and technical assistance studies.

## QUALIFICATIONS

- Bachelor's degree in electrical engineering.
- Minimum 2-5 years of experience designing electrical systems for buildings.
- Experience in the following project and market types:
  - » New construction, complex renovations, high/medium voltage, electrification, fire alarm, lighting, renewable energy systems
  - » Higher education, industrial, manufacturing, healthcare, laboratory, central plant, public sector
- Experience with National Electric Code.
- Proficient with Revit for designing single line diagrams, risers, panel schedules, power plans, lighting plans, etc.
- Proficient with Microsoft Office including strong MS Excel skills.
- Experience with BIM and other class detection applications for modeling (CAD/Revit).
- Familiarity with SKM power system software is desirable.
- Strong organizational skills, including ability to prioritize effectively and balance assigned work.
- Able to work independently and capable of self-checking for completeness and accuracy.
- Strong technical writing skills.
- Strong interpersonal and communication skills for team-based working.
- Presentation skills with colleagues and clients.
- Engineer in Training and willingness to obtain P.E. license as an electrical engineer.

## WHY JOIN US

- Career Development: Access to mentorship programs, continuous learning initiatives, and career advancement opportunities. We leverage the power of teamwork, collaboration, and continuous learning.
- Important Work: Help grow our business on cutting-edge projects related to our built environment and specifically energy, resiliency, and sustainability projects that make a significant positive impact for future generations.
- Work-Life Balance: Benefit from flexible working hours and remote work options.
- Comprehensive Benefits: Competitive salary, health care benefits, and retirement plans.

## HOW TO APPLY

We are interested in every qualified candidate who is eligible and authorized to work in the United States. If you are interested in applying confidentially for this position and learning more about B2Q please send a cover letter & resume to [employment@b2qassociates.com](mailto:employment@b2qassociates.com).