



## Electrical Engineer – Full Time

### N3D Group

N3D Group is a Consulting Engineering firm that offers mechanical, electrical, and fire protection engineering design services primarily for building and process projects. N3D clients includes State, Federal, and Private Clients as well as many architectural firms. We encourage candidates to review our website at [www.n3dgroup.com](http://www.n3dgroup.com) to gain more information about our firm.

### Position

Full time position for electrical engineer graduate to design electrical power, system, and data systems for a wide variety of facilities and processes. Location of position is N3D Group's main office in Lexington, KY. Some travel will be required to projects located primarily in Kentucky but could can be anywhere in the United States. Candidate is encouraged to take the Fundamentals of Engineering exam and Principals and Practice exam leading to a Professional Engineer licensure.

### Salary and Benefits

- Annual salary will be very competitive with similar positions in the area.
- Simple 401k - employer matches up to 3% of salary contribution
- Three weeks of PTO per year
- Single Health Insurance Coverage – 100%
- 8 holidays

### Job Summary

- You will design projects as part of a multidisciplinary team. This includes all aspects of the projects including design, analysis and all aspects of project engineering work.
- You will work on teams with Architects, Mechanical & Civil Engineers.
- You will be taught in-house on design of various building and process systems. Such systems include lighting layout, fire alarm, power systems, data systems, and controls.
- You will become familiar with include short circuit and ground fault calculations, cost estimating, power load calculations.
- You will learn numerous building codes and how to apply them to bid documents for construction.

- You will travel to construction sites to review the systems you design and offer guidance to the Contractor for any corrective measures.

### **Job Accountabilities**

- Designs power systems for buildings in accordance with the National Electrical Code
- Researches new technologies for incorporation in to design.
- Shall use AutoCad and/or Bim (Revit) software for design.
- Travels to project sites design to gain existing system information.
- Travels to project sites during construction to observe construction and write progress reports.
- Review contractor pay applications during construction.
- Interacts with vendors to obtain knowledge for design projects.
- Directly or indirectly manages design staff affiliated with project.
- Attends design coordination meetings at client offices and accurately records items of discussion.

### **Education Qualifications**

- Minimum Education: Bachelors of Science Degree in an ABET Accredited Engineering Curriculum that will allow licensure as a Professional Engineer.

### **Competencies**

- Problem Solving - Identifies and resolves problems time efficiently; Gathers and analyzes information; Develops solutions; Uses reason.
- Design - Produces creative solutions; Translates concepts and information into images; Demonstrates attention to detail.
- Cost Consciousness - Works within approved budget; Develops and implements cost saving measures; Conserves company resources.
- **Oral Communication - Speaks clearly and persuasively; Listens and gets clarification when necessary; Responds informatively to questions.**
- **Written Communication - Writes clearly and concisely; Edits work; Varies writing style to meet specific needs; Presents data effectively; Able to read and interpret written information.**
- Leadership - Inspires and motivates others to perform well; Effectively influences actions and opinions of others; Gives recognition to others as appropriate.
- Planning/Organizing - Prioritizes and plans work activities; Uses time efficiently; Plans for additional resources; Sets goals and objectives.
- Teaching/Training - Clearly explains concepts; Varies presentation style to satisfy different learning needs.
- Candidate shall have taken, or be scheduled to take, the ABET Engineering Fundamentals Test (Engineer in Training)

- Candidate shall be motivated to take the Principles and Practice (Professional Engineer) to gain professional engineer status in five years from date of employment.

### **Skills: Language**

- Ability to read, analyze, and interpret general business periodicals and professional journals.
- Ability to write reports and business correspondence.
- Ability to effectively present information and respond to questions from supervisors, clients, customers, and the general public.

### **Miscellaneous Requirements**

- Candidate will need to be able to climb ladders to investigate existing electrical systems above ceilings and gain access to roofs.
- A valid driver license and ability to drive to project sites many hours in one direction.
- Must not have any past felony convictions anywhere in the United States.
- Candidate will undergo background checks by employer prior to employment.
- Background checks will be required for most projects before employee will be allowed on site.

End of Job Description