

# CITY THEATRICAL

NEW YORK • LONDON

## Job Description

Re-posted: February 21, 2023

**Title:** Electrical Engineer  
**Reports to:** Head of Engineering

**Department:** Engineering

City Theatrical has been inventing and manufacturing award-winning, industry leading products and technology for over 37 years. Even if you have never heard of City Theatrical, chances are you have seen our industry trusted products bring to life productions like:

**Broadway:** *MJ The Musical, Moulin Rouge! The Musical, Hamilton, The Phantom of the Opera, The Lion King*, among [many others](#).

**Tours:** Carrie Underwood's [The Denim & Rhinestones Tour](#), Madonna's MDNA Tour, America's Got Talent (AGT), U2's 360 Tour, Taylor Swift's Red Tour, and more.

**Broadcast Television studios:** [CBS Studio](#) for *Evening News with Norah O'Donnell*, [ESPN Studio Y](#) for *SportsCenter*, NBC's *The Tonight Show, Saturday Night Live*, and *Late Night with Seth Meyers*, MSNBC News, Fox News, NBC Sports, and more.

**TV and Film Industry Projects:** [The Unicorn](#), Netflix Film [End of the Road](#), [Stranger Things](#) Season 4, *The Gilded Age, The Marvelous Mrs. Maisel*, and more.

City Theatrical's dedication to be the best in the industry exemplifies the company's culture and motto: We invent, manufacture, and customize unique lighting accessories and technology.

The primary role of the **Electrical Engineer** is to aid in creating a steady source of high margin new product designs to support the company's sales and profit goals. Primary responsibilities include new product design engineering, engineering support and engineering documentation.

### **Responsibilities:**

- Design Engineering
  - Contribute to the product development process with product definition ideas and original design solutions
  - Design electronic hardware
  - Develop embedded firmware
  - Develop QC and test procedures for company products and processes
  - Develop production training programs for assembly staff as new products are developed
  - Serve as a company expert in pertinent areas such as electronic hardware, software and designing for entertainment technology
  - Contribute to the development and conservation of engineering resources including tools, test instruments, development hardware, and design software
  - Act as a technical representative and advocate for the Company
  - Provide marketable consulting services
  - Help create and monitor Engineering project budgets

**US HEADQUARTERS**  
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- Identify and help achieve cost reductions in electronic products
- Create ERP Bills of Materials for new designs
- Engineering Support
  - Construction of Prototypes
  - Provide in-house engineering and technical support to the Manufacturing Dept
  - Perform performance tests on products
  - Create product software for old and new designs
  - Develop design improvements to enhance productivity, improve quality, and reduce costs
- Engineering Documentation
  - Create/Edit Theory of operation Documents
  - Create/Edit Manuals
  - Create/Edit Assembly instructions
  - Create/Edit QC procedure Instructions
- Additional Responsibilities:
  - Other duties as assigned.
  - Completes special projects and requests in a timely and positive fashion

#### **Product Knowledge & Certifications:**

- Ability to handle multiple projects and complete them on schedule
- Fluency with standard electronics test equipment including DDM and Oscilloscope
- Advanced PCB level soldering skills
- Effective interpersonal skills and the ability to interact with all levels of employees
- Digital and analog electronic design
- Fluency with standard engineering documentation such as conventional electronics schematics, etc.
- Ability to identify standard electronics components and determine their values using industry standard ID references
- Reliable knowledge of and ability to apply good electrical safety practices
- Excellent communication and organization skills
- Ability to work independently and as part of a team
- Effective problem solving and creative thinking skills
- Ability to program in C using Eclipse or other IDEs
- Ability to program in Python
- Flexible and able to adapt to change
- Able to lift up to 50 pounds

#### **Education:**

- Bachelor of Science degree in Electrical Engineering or similarly related degree

**Compensation Includes: Competitive Salary, Profit Sharing, 401(K) Matching, Health Insurance, Dental Insurance, Paid Time Off, Vision Insurance.**

To apply, send your cover letter and resume to: [info@citytheatrical.com](mailto:info@citytheatrical.com)

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Connect with City Theatrical!



<https://www.citytheatrical.com>