

Memo

To: Professor Ellis

From: Ali Jaber

Date: February 17,2015

Subject: Job Application Research, Control Systems Engineering at Con Edison

#### Executive Summary

This is my job application form for the Control System Engineer position at the Consolidated Edison Inc. Upon crossing this job posting from the Con Edison website, I instantly took advantage of the open opportunity. I did some research on Con Edison and was able to learn about the company's development, and also learned about the control system engineer position, which seemed suitable to me. This position caught my attention as an electrical engineer student/graduate, and is an opportunity for me to grow as an electrician, and help gain knowledge in this field.

#### Job Listing-

Title: Engineer

Organization: Central Engineering

Department: Control Systems Engineering

Expires On: 3/31/2015

Qualifications: Control Systems Engineering Department, Electrical Controls, is looking to hire a dedicated professional who is committed to delivering exemplary customer service. Must possess strong technical competence, be well-organized and be detailed oriented. Must be flexible to handle multiple assignments with changing priorities and deadlines. Must have a high regard for personal accountability, and understand the critical importance of Commitment to Engineering Excellence. Must demonstrate a high energy level and promote a positive work ethic in support of our Corporate Values. Must possess strong oral and written communication skills and have the ability to effectively interact with subordinates, colleagues and various levels of management. Must demonstrate the ability to write specifications and standards and coordinate engineering projects and assignments. Computer system experience required. Requires a Bachelor's degree in Electrical Engineering or Computer Engineering.

SENIOR ENGINEER (2H): Requires at least 8 years' experience and expertise in the application of electrical control systems. Requires the ability to work independently, provide oversight, direction in a developmental role for the department.

ENGINEER (2L): Requires 3 years' experience and/or knowledge in electrical control systems.

Must be able to travel to various company locations as required and wear the appropriate PPE. Driver's license required for travel within service territory and for meeting with other utilities.

<http://apps.coned.com/careers/careers/list.asp?category=Engineering>

## Company Background

Consolidated Edison also known as Con Edison, is the electrical company that transmits and distributes the electricity and gas that is used in all of New York City's homes and business for more than 180 years. Con Edison also energizes one of the world's largest mass transportation systems known as the MTA. Con Edison owns and operates the world's largest district steam systems, providing services in the five boroughs and most of Westchester County. This cooperative serves 3.1 million electric customers, 1.1 million gas customers, and 1825 steam customers. This company is one of the nation's largest investor-owned energy companies, with approximately \$12 billion in annual revenues and \$41 billion in assets.

## Description of Position

This job I'm applying for (Control Systems Engineer) is looking for an engineer who is able to analyze, design and apply electrical controls for substations and generating stations. In this position the candidate will be able to monitor station control systems, read metering and will have to install alarm systems. In a position like this the employee will have to analyze test result data and review schematics and wiring diagrams to make sure everything is running correct. . The candidate should be able to perform strong oral and writing communication skills to be able to interact with other colleagues. In this job the control systems engineer should have knowledge on DC power systems, data Acquisition Systems, Energy Management, and Human Machine Interface.

## My Preparedness for This Position

The work and studies that I have been doing in college helped me prepare for this position in Control System Engineering. I have been taking classes at Bronx Community College that gave me experience and knowledge on DC circuit analysis and electronic controls that would be useful in this field. I was able to analyze schematics and make my own wiring diagram based on the schematic. I worked in teams to build and test circuits, and I was also able to write lab reports based on the data results collected. I was able to develop strong oral and writing communication skills, which gives me the ability to interact with subordinates, colleagues and other various levels of management. I currently attend City Tech University where I continue my studies in electrical engineering to obtain my bachelor's degree and to be able to gain more knowledge and experience in the electronics field.