

**NIAGARA FRONTIER TRANSPORTATION AUTHORITY
JOB OPPORTUNITY NOTICE**

**August 13, 2024
Job #123-24-N**

TITLE: ELECTRICAL ENGINEER - AVIATION
DEPARTMENT: ENGINEERING
UNION: NON-REPRESENTED
SALARY: \$86,997 - \$130,493

WORK OBJECTIVE

Under the direction of the Vice President of Engineering and Facilities Management, this position involves design, planning and executing preventative maintenance and capital upgrades/expansions to the electrical power distribution systems at the Buffalo Niagara International Airport, Niagara Falls International Airport and adjacent ancillary NFTA facilities.

ESSENTIAL FUNCTIONS

The list of essential functions, as outlined herein, is intended to be representative of the tasks performed within this classification. It is not necessarily descriptive of any one position in the class. The omission of an essential function does not preclude management from assigning duties not listed herein if such duties are a logical assignment to the position.

- Serve as the subject matter expert for the airports' airside and landside electrical systems including but not limited to:
 - Campus wide 12.5 KV primary power & substation distribution
 - Airfield lighting and associated control system(s)
 - Exterior lighting Parking facilities & roadway
 - Interior lighting & plug load distribution
 - Photovoltaic systems
 - Large scale Electric Vehicle charge operations
 - Emergency & Standby Generation systems
- Advise electrical staff on safe practices.
- Develop and implement an arc flash hazard analysis program.
- Develop and administer, with electrical staff, a preventative maintenance program.
- Develop, with information technology staff, power monitoring systems.
- Identify and design capital projects to assure electrical infrastructure reliability.
- Identify and design capital projects to support increasing electrical demands.
- Oversee designs and installations of equipment upgrades and system expansions and procure electrical services as necessary.
- Provide technical reviews of Engineering Dept. aviation projects.
- Assists in the development and/or update of electrical maintenance policies and procedures.
- Support electric propulsion aircraft charging infrastructure.

- Interact with utility companies and state agencies NYPA and NYSERDA.
- Perform other related duties as assigned.

KNOWLEDGE, SKILLS, and ABILITIES

- Thorough knowledge of electrical systems and electrical safety.
- Proficient in the interpretation of electrical codes, regulations, and engineering best practices.
- Proficient in reading, editing, and creating electrical drawings such as one-line diagrams, conduit schedules and panel schedules.
- Ambition to learn aviation specific systems e.g. aircraft guidance.
- Ability to communicate effectively, both orally and in writing.

MINIMUM QUALIFICATIONS

Minimum of a bachelor's degree in electrical engineering and 5 - 10 years of design and/or maintenance experience. NYS Professional Engineering license required OR the ability to obtain it within 1 year. Security badging requirements, e.g. SIDA badge/ US Customs and Border Protection Seal, apply to this position.

PHYSICAL REQUIREMENTS:

Tasks involve the ability to exert light physical effort in sedentary to light work, but which may involve some lifting, carrying, pushing and/or pulling of objects and materials of light weight (5-10 pounds).

ENVIRONMENTAL REQUIREMENTS:

Requires capability of performing essential job functions in and office setting, and at equipment locations (indoors and outdoors).

TO APPLY:

Send NFTA employment application, resume and cover letter **specifying the job number 123-24-N to:**

NFTA Human Resources
181 Ellicott Street
Buffalo, NY 14203

Or email to: application_intake@nfta.com

Application Deadline: September 3, 2024

POST: 8/13/2024

REMOVE: 9/03/2024

The Niagara Frontier Transportation Authority is an Equal Opportunity Employer