



NON-BARGAINING UNIT JOB POSTING

**POST:
External**

DIVISION: Human Resources		DEPARTMENT: Safety
# OF OPENINGS: 1	JOB TITLE: Engineer/ Safety-Electrical	MARKET RATE: Engineering and Scientific Grade 1-3: \$47,000-90,200
GENERAL SUMMARY OF DUTIES:	The Safety Engineer will provide engineering expertise for performing arc flash calculations for Water Conditioning Plants, Electric Power Generating Plants, Chiller Plant, etc., and the BWL electrical distribution system; and perform simulation scenarios in distribution circuits according to position/distance from protective devices, and switching scenarios, for single and three phase conditions to determine the arc flash incident energy and respective boundaries. Perform required inspections, testing, and other duties necessary to keep the company in compliance with occupational health and safety regulations, and electrical safety standards or laws, and to prevent harm to workers, property, the environment, and the general public. Acts as subject matter expert for arc flash training.	
ESSENTIAL FUNCTIONS:	<ul style="list-style-type: none"> ▪ Confirm existing electrical installations and update one-line prints ▪ Calculate arc flash incident energy and arc flash boundary distances as specified in IEEE 1584 ▪ Create labels conforming to ANSI Z535.4 to include above information and equipment voltage, current, limited and restricted shock boundaries ▪ Perform simulation scenarios of the arc flash incident energy and respective boundaries in electrical distribution circuits according to position/distance from protective devices, and switching scenarios for single and three phase conditions ▪ Develop and deliver training in electrical safety, arc flash and shock hazard safety, and related issues ▪ Performs safety incident investigations, Job Safety Analysis and PPE Hazard Analysis as required ▪ Reviews, and write Standard Operating Procedures as required ▪ Performs plant and area inspections as required ▪ Utilizes applicable software systems to complete job assignments ▪ Works under the technical direction of the BWL Arc Flash Team ▪ Performs activities related to office organization, filing, inventory of equipment, materials, etc. as required ▪ Communicates orally and in writing with area personnel regarding safety issues ▪ Participates in BWL Safety Committee, area Safety Advisory Committees, and department Safety Meetings as required ▪ Follows the BWL Safety Manual and wears required personal protective equipment as necessary ▪ Performs other department duties as directed ▪ Attends training for safety awareness or skills improvement as required by supervisor, BWL or governmental agency such as MIOSHA 	
JOB SPECIFICATIONS:	<p>Required: Bachelors of Science degree in Electrical Engineering from an ABET accredited university. Familiarity with applicable policies, rules, regulations, and codes related to electric power generation, transmission, and distribution. Leadership, initiative, and decision making skills. Experience in technical writing. Proficiency to review and analyze technical information, policies, and reports. Proficient knowledge of MS Office Word, Excel, and PowerPoint. Ability to communicate clearly and concisely, and present to varying work groups including employees, management, engineering departments, vendors/suppliers, and outside agencies. Ability to obtain MIOSHA General Industry Level I and II certifications within the first two years. Valid Michigan driver's license with evidence of a safe driving record.</p> <p>Preferred: Previous experience performing arc flash calculations conformant to IEEE 1584 and using Arc Pro, E-Tap, SKM software or equivalent.</p>	
PHYSICAL REQUIREMENTS	Ability to work in a variety of environments such as power plant environments, outdoors in all weather conditions, around energized electrical equipment with proper PPE. Ability to lift up to 30 lbs. of equipment, material and tools.	
WORKING CONDITIONS:	Normal office environment. Frequent field visits. Moderate stooping, crouching and kneeling. Potential exposure to dust and noise.	
TO APPLY:	Email application, resume and cover letter to bwljjobs@bwl.com , with the subject line Safety Engineer or mail to BWL PO Box 13007, Lansing, MI 48901. Applications can be downloaded from the BWL website at www.lbwl.com . Deadline for submission is September 22, 2017.	

THE BOARD OF WATER AND LIGHT IS AN EQUAL OPPORTUNITY EMPLOYER.

