

The Central Lake Ontario Conservation Authority (CLOCA) is seeking two summer students for the position of Assistant Water Resources Assistant. **Wage Rate per Hour:** \$16.15 per hour and is based on a 35-hour work week with the possibility of weekend or evening work.

RESPONSIBILITIES - The Assistant will support the water monitoring program by conducting stream baseflow and highflow measurements and analysis at pre-determined sites throughout CLOCA's watershed. Will conduct geodetic surveys at stream gauges, install monitoring equipment and conduct water quality samples.

Stream Baseflow Assessment - The Authority is currently working with provincial partners on the Low Water Response Program. The Authority has a long-term stream baseflow monitoring network. The main objective is to obtain baseflow measurements during the summer months and to monitor current stream conditions. At established measurement sites, the Assistants will measure stream velocity using a flow meter; calculate flow for each site using Excel spreadsheet; and populate CLOCA's water monitoring database.

Stream & Precipitation Gauge Station Maintenance – Will help the Environmental Engineering Analyst repair damaged stations, conduct general maintenance on sensors and tipping buckets, move and/or install new equipment and install loggers at specific CLOCA projects. CLOCA owns and operates stream water level gauge stations above known flood damage centers. The Assistants will conduct detailed geodetic surveys including full stream geometry, overbank topography and elevations at gauging stations. Will conduct flow measurements and water levels for a range of flow events. Will develop rating curves by adding measured points, computing curves using Manning's Equation, Benoulli's Theorem and Hec-Ras models. Establish water level indicators for gauge stations and associated flood damage centers. All data will be entered into CLOCA's water monitoring database.

Groundwater Monitoring – Under the direction of the Hydrogeologist, Assistants will collect groundwater quality samples, retrieve well water level data, and perform routine maintenance of CLOCA's groundwater monitoring system. Data will be quality control checked, and databased.

Water Quality Samples – Will help the Environmental Engineering Analyst in collecting surface water quality samples in the various monitoring programs.

QUALIFICATIONS - The successful candidate should have the following:

- University/college student with experience in engineering or environmental resources or technology
- Comfort with doing field work and working with field equipment
- Computer skills including Microsoft Office, Microsoft Access (ArcView software knowledge is an asset)
- Valid Ontario G driver's license
- Transportation to CLOCA office
- Student must provide and wear green patch safety boots. Other required safety equipment as prescribed in the Health & Safety Manual is provided by the employer

The following are desirable, but not mandatory:

- Land surveying
- Operation of a flow meter
- Contour map reading
- ArcMap or GIS experience
- Current first aid/CPR certification

To be eligible, individuals must 1) be between 15 and 30 years of age at the start of the employment; 2) have been registered as full-time students in the previous academic year and intend to return to school on a full-time basis in the next academic year; 3) be a Canadian citizen/permanent resident; 4) be legally entitled to work in Canada in accordance with relevant provincial/territorial legislation and regulations.

Send resume and cover letter, no later than Friday March 9, 2018 to:

Jeff Burgess, Water Resources Engineer
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