



# **K. SMART ASSOCIATES LIMITED**

## **CONSULTING ENGINEERS AND PLANNERS**

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With over 30 years of continuous service, K. Smart Associates Limited is a private Canadian owned consulting engineering and planning company that is employee-driven with a collaborative environment where staff multi-tasks and individuals assume a hands-on, creative approach to a wide variety of challenging work. The company is well-known for its achievements in the design and implementation of engineering solutions in the field of infrastructure, municipal drains, land development and environmental consulting services.

### **Job Description Summary:**

Drainage Engineer required for drainage works projects under the Ontario Drainage Act preparing engineering studies, detailed designs, assessment schedules and reports. Applicant should have knowledge in all aspects of drainage including open channel flow, surface water hydrology, groundwater hydrology, and hydraulic structures. Applicant should have a working knowledge of AutoCad, ArcView, Microsoft Office, HEC Software.

### **Key Responsibilities:**

Responsible for proposals, scopes of works and bids, preparation of engineering studies and reports, working with specialist engineers and local and provincial government agencies including Conservation Authority, MOE, MNR, MTO, EAA, preparation of preliminary and detailed designs and administration of construction activities for a variety of drainage works projects, responsible for client contact, monitoring budgets, supervising project team members and overseeing all aspects of drainage projects from concept through completion in both Northern and Southern Ontario. Scope of responsibilities includes performing hydraulic and hydrologic calculations and modeling, preparing drainage reports, coordinating drainage design, utilities relocation, civil engineering functions, preparing specifications, construction cost estimates and construction packages and overseeing contractor activities during construction. Duties include arranging specifications and tender documents, meeting with clients and contractors, coordinating with sub-consultants and performing field inspections. Work will include storm water management plans, drainage district issues (seepage, pumping plants, drainage) floodplain modeling and mapping, hydraulic and hydrologic analyses and all other drainage related projects.

### **Qualification Requirements**

- Bachelors Degree in Civil Engineering
- licensed as a Professional Engineer in Ontario
- minimum 5 years Canadian consulting engineering experience in drainage design
- working knowledge of procedures required by Ontario Drainage Act
- thorough knowledge of hydraulics, hydrology, storm water treatment, open channel design, and modeling techniques for culvert design, drainage way design, and detention pond sizing
- knowledge of drainage improvement construction, utility coordination, general civil site improvements, project management, cost control and scheduling
- knowledge of general civil site design including grading, utilities, and pavement design
- experience in detailed hydrologic and hydraulic engineering analysis and design, including erosion and sediment control design, watershed studies, drainage studies of major waterways, drainage channels, floodplain and floodway analysis
- experience in application of provincial local permitting requirements, regulatory knowledge and the design of storm water collection systems, detention and water quality facilities, open channels and other agricultural and transportation drainage structures
- highly proficient with state of the art hydrologic/hydraulic modeling tools for stormwater system analysis and design,
- working knowledge of engineering software including AutoCAD, Land Desktop experience preferred, proficiency with GeoPak and GIS desired
- experienced with HEC-1, HEC-2, HEC HMS or HEC-RAS software modeling
- excellent verbal, written communication skills and presentation skills, technical problem solving, solid data analysis and organizational skills
- experienced with construction contracts and administration
- proficient with Microsoft Office Suite

Email your resumé, cover letter and employment application in MS Word format to [info@ksmart.ca](mailto:info@ksmart.ca)  
Attention: Administration and Human Resources Manager  
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