

Expression of Interest

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REOI- RECRUITMENT OF A GEOTECHNICAL EXPERT

Dear Madam/Sir,

I am expressing my interest in the assignment for REOI- RECRUITMENT OF A GEOTECHNICAL EXPERT. I feel that I am very well suited for this assignment given my education, experience, and career interests.

I have a very solid background in soil and rock mechanics which permits me to have a thorough knowledge of soils and rock engineering. I have a Master's and PhD degrees in geotechnical engineering. I am very experienced in surface and subsurface explorations for engineering purposes. I am very experienced in geophysical exploration for subsurface mapping of overburden/soils and bedrock and have the ability to choose the most appropriate methodologies in accordance with the ultimate goal of the client, knowledge of the site conditions, knowledge of the regional geology and the geophysical principles. I am an expert in geotechnical engineering and very experienced in geotechnical subsurface exploration methods including accessible and non-accessible exploration methods. I am very experienced in field and laboratory sampling methods and have the ability to understand and interpret field data and exploration logs. I have carried out geophysical reconnaissance studies, geotechnical field investigations, laboratory testing, foundations analyses and designs, wrote geotechnical design reports and managed all geotechnical aspects, for a variety of projects ranging from medium size (parking lots of more than one thousand spots) to large complex multi-discipline heavy industrial construction projects (dams, building, structures, road, bridges, ports, airstrips, railway, tunnel shafts and tunnels in urban areas with complex underground and overhead utilities). I am very experienced in instrumentation and monitoring of dams and reservoirs. I know which types of instrumentation and monitoring are required to monitor the behavior of dams at each stage of investigation, planning, design, construction and operation. This performance monitoring during both construction and operation are for dams' safety. I know what to monitor, monitoring instrument systems, how to select monitoring instruments and evaluate measurements and measurements' variation with time. I am very familiar with conditions prevailing in Sub-Saharan Region since I worked in Cameroon for 8 years before immigrating to Canada. I participated in safety reviews of hydropower and drinking water dams in Cameroon. I have also conducted dam safety review for numerous Ontario Power Generation dams. I am very experienced with common and specialised field and laboratory testing for soil and rock.

I have sound analytical, decision making, judgement and organizational skills. I am bilingual (English and French) and have well developed written and oral communication skills. I have good interpersonal skills and can virtually operate all computer software programs in structural and geotechnical engineering.

In addition to my experience, I have deep knowledge and understanding of the theory, principles and practices of civil engineering and extensive civil engineering expertise and consultative services as part of different multi-disciplinary and multi-cultural design and peer-review teams for a variety of projects including water supply and sanitation projects. I can ask critical questions, explain technical information, support and/or make recommendations for the design and/or provide advisory services to designers. I can conduct or participate in peer reviews, provide support, guidance and assess impacts of applicable legislation, codes and standards. I have the ability to understand and interpret technical civil engineering drawings, specifications and requirements. I am familiar with Human Rights Code and International Standards, Codes and Practices. I have worked on projects in Canada, Africa, Afghanistan, Switzerland, United Arab Emirates (UAE) and United States of America (USA).

Best regards,
Michael Nkemitag

Highlights

Geotechnical Analysis & Design
Field and Site Investigations
Embankment Design
Commercial/infrastructure projects
Slope stability analysis
Retaining walls
Dam Inspection and Monitoring
Dam Safety Review

Documentation and reporting
Construction monitoring
Earth Dam Design
Tailing Dams Design
Pavement studies
Deep foundation design
Proposals and business development activities

Experience

Senior Geotechnical Engineer

City of Toronto, Toronto Transit Commission (September 2009-Present)

Toronto, Canada

- Supervise geotechnical and geo-environmental field investigations for design and construction of a variety of structures including dams, embankment, tunnels, retaining walls and parking lots
- Analyze geotechnical findings and perform appropriate calculations and prepare design reports
- Provide direction to technical team in field in inspection activities
- Perform geotechnical analysis and study to assess construction site conditions
- Plan and conduct geotechnical exploration effectively
- Develop proposals and determine cost and schedule for investigations.
- Co-ordinate specifications for designs with other disciplines.
- Author of two TTC master specifications

Trow Associates Inc., Ottawa (June 2006 – August 2009)

Relevant Experience

- Supervise geotechnical and geo-environmental field investigations for design and construction of a variety of structures including dams, embankment, tunnels, retaining walls and parking lots
- Conduct Dam Safety Reviews
- Led multi-disciplinary project teams and supervise/direct other professional engineers and technical personnel.
- Construction Site Manager for numerous projects.
- Quality assurance and control for construction projects.
- Maintained and developed partnerships with development partners and research institutions.
- Footing and structure inspection.
- Concrete testing during the construction of various structures.
- Rebar inspection.
- Numerous site investigations for various structures for Ottawa transit and related facilities.
- Participation in bridges' inspection and structural assessment.
- Contract administration and field inspections during construction.
- Road structure design.
- Project cost estimation.
- Interpretation and evaluation of field and laboratory test data of structures.
- Design of structures from other offices of Trow Associates Inc. around the world.
- Design of temporary and permanent shoring systems for various deep excavations in downtown Ottawa.
- Design of numerous subsurface and retaining walls

Senior Geotechnical Engineer

DST Consulting Engineers Inc., Ottawa (September 2004 – May 2006)

Relevant experience

- Supervise geotechnical and geo-environmental field investigations for design and construction of a variety of structures including dams, embankment, tunnels, retaining walls and parking lots.
- Conduct Dam Safety Reviews
- Project manager on various projects in Ottawa and the area.
- Development and implementation of field and laboratory programs.
- Technical leadership in projects and tasks.
- Preparation of work proposals.
- Design of numerous subsurface and retaining walls.
- Foundation analysis and design (including bearing capacity and settlement of shallow foundations, capacity and settlement of deep foundations).
- Contaminated Site Assessment and Remediation.
- Environmental Site Assessment (Phase I and II).
- Supervision of geotechnical site investigations.
- Design of laterally loaded piles.
- Recommendations for water main construction.

Queen's University, Kingston, Ontario (January 2002 – February 2007)

Relevant experience

Taught civil engineering courses including dam design and seepage analyses

Provided advice to municipal, provincial and federal government on the state of infrastructures in Canadian major cities

Attended numerous conferences

Laval University, Quebec City, Quebec (September 1999 - August 2001)

Relevant experience

Taught civil engineering courses including dams design and seepage analyses

Ministry of Public Works of Cameroon (November 1993 – August 1999)

Relevant experience

- Conduct Dam Safety Reviews

- National coordinator of the inventory of rural water supply facilities status
- Participated in the assessment of all water treatment stations for Yaoundé, Capital of Cameroon.
- National director of rural road construction and maintenance.
- Leads and coordinate the choice of transportation projects through preparation activities.
- Coordinated the supervision and implementation of projects, monitored and ensured the overall performance of the department under my jurisdiction, operational effectiveness, and development impact.
- Quality assurance and control for construction projects.

Education

- PhD (Eng) Geotechnical Engineering at Queen's University, Kingston
- MSc Geotechnical Engineering, Laval University, Quebec City, Quebec (2001)
- BSc Civil Engineering, Advanced School of Public Works, Cameroon (1993)
- MSc Chemistry, University of Yaounde, Cameroon (1992)
- BSc Physics-Chemistry with Major in Physical Chemistry, University of Yaounde, Cameroon (1990)

Additional skills

Good communication and interpersonal skills.

Good leadership skills.

Good engineering judgment.

Bilingual: French and English.

Ability to adapt to new situations rapidly

Willing to learn

Accept and appreciate constructive criticism