Ross Donaldson, BSc., MSc., PhD.

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12th June 2019

Re: Environmental Engineer or Scientist (Intermediate Associate)

Dear Sir/Madam,

I am requesting your consideration for the position of Environmental Engineer/Scientist with 30 Forensic Engineering. Having moved from Glasgow, Scotland to Oakville, Canada, I am excited to continue my career across environmental science, environmental engineering and civil engineering. I consider myself a team player, but I also have the ability to work and solve problems with minimal direction. My impeccable organizational skills mean I enjoy and function well with the duality of on and off-site work, which is often required in such a dynamic field.

I have highlighted some key areas below to showcase why I believe I would be an excellent match to the role:

Highly Relevant Experience

I hold a Doctorate in Civil & Environmental Engineering, as well as a Master's in Environmental Engineering and a Bachelor's in Science Studies. Most recently, I have conducted highly successful research in renewable energy, land use strategies and the greening of brownfield sites. I also have a strong Master's level background in environmental engineering which includes an understanding of hydrogeology, environmental impact assessment, site investigation and environmental field activities. This is backed by crucial experience working on-site in the construction sector, requiring the use of PPE and working to rigorous health and safety standards.

Self-Starter, Fast Learner

Throughout my university and employment career, work has always been fast-paced. Whilst earning my PhD, I learned early on that being a self-starter and fast learner improves productivity, and is one of the most efficient ways to success. This experience taught me more than anything else the importance of good planning and follow-through. Where I faced unknowns, I saw it as an opportunity to learn and grow my knowledge base, from which I could make informed decisions.

Strives for Creative, Well Informed Solutions

I have always taken a holistic approach to problem solving. In my university career, this aided me when I was able to address numerous Government policy goals with an integrated approach to one systemic problem. This extended to my work career when I was able to align building refurbishment projects to minimize disruption across over 5,000 residential properties.

Ability to Coordinate Simultaneous Projects

Across my career, I have developed a crucial understanding of plans of works, and the ability to dynamically track projects. One example is when I was responsible for coordinating £7million of investment works for a municipal housing provider. Project tracking aids with reporting, whether that be publicly, or to a more senior level within the business. Also, this aids in the ability to track if project objectives have been met or exceeded. Coordinating simultaneous projects also requires the management of subcontractors, consultants, and engineers pertaining to pre-start meetings, progress meetings, site visits and report compiling within strict deadlines.

Impeccable Organizational Skills and Attention to Detail

I strongly believe that the design of processes and the design of solutions are only as good as the data that you feed into them. Data integrity is crucial if we are to report on findings and design solutions that work. This includes impeccable planning, document control, the maintaining of logs, and also data security. Conveying this data is also important, where critical attention should be paid to report writing which should be of the highest standards.

I would very much appreciate the opportunity to discuss my qualifications and fit for the Environmental Engineer/Scientist role. Please feel free to get in touch with me at your convenience. I am very excited about this opportunity and I look forward to hearing from you.

Sincerely,

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HIGHLIGHTS OF QUALIFICATIONS

- 8+ years of experience in the research and design of renewable energy deployment options for brownfield land sites to meet the energy demands of Government assisted affordable housing.
- A published author on the integration of land and energy use strategies that targets policy goals whilst addressing environmental issues, using a holistic and strategic approach.
- Holds a BSc in Science Studies, heavily weighted on Environmental Science.
- Holds an MSc in Environmental Engineering; in 2018, gained a Doctorate degree in Civil and Environmental Engineering.
- Previously responsible for collating, implementing and managing building energy refurbishment projects for a property portfolio of over 5000 residential properties.
- The ability to manage and align varying projects, which includes monitoring progress against plans of works, coordinating staff including engineers, and supply chain innovation.
- Possesses excellent report writing abilities including the analysis and dissemination of data and use of high-level financial models.
- Solid background in stakeholder engagement where end users are placed at the heart of solutions, all within budget constraints, to foster sustainable growth.
- Proficient in MS Office, Fusion Tables, Building Energy Modelling, Ground Loop Design, with experience in GIS. Holds a valid Ontario driver's license.

SKILLS AND EXPERIENCE

Renewable Energy Research and options for Brownfield Land

- Evaluated end user energy demands and building fabric to target energy deployment on brownfield land, backed by broad environmental science and engineering knowledge.
- Created and managed new data relating to available land parcels that was previously unknown for Scotland, UK, which included understanding of the subsurface and contaminant flow.
- Developed a high-level financial model (25-year projection) for optimum cost/benefit analysis.
- Designed a new method for bringing land parcels back into use creating value through linked economic and social benefits, which includes detailed dynamic building energy modelling.
- Embedded environmental science and engineering principles within project design and optimization.

Strategic Policy Implementation and Alignment

- Understands the benefits for, and has the willingness, ability and experience to create, strong partnerships across varying and diverse departments, both internal and external.
- Critical decision making backed by good solid knowledge, data acquisition and management.
- Recognizes the importance of a holistic approach to land use policy, energy policy, environmental management and urban policy direction at both a regional and national level, and the impact on current and future investment projects.
- Aligned policy demands to create strategic integration opportunities where numerous policy objectives can be met.
- Oversaw complete project works, from design, planning, day to day running, client and contractor liaison, billing, document and data control, and the management of contingency.

Stakeholder and Community Engagement

- Experience of working directly with contractors, developers and consultants, including cross-departmental collaboration pertaining to project requirements and plans of works. This includes pre-start meetings, progress meetings, site visits and report compiling within strict deadlines.
- Actively works towards clear, concise communications at all times.
- Experience of writing stakeholder engagement material as well as staging stakeholder engagement events, both to foster community buy-in and promote strong external relationships.

EMPLOYMENT HISTORY

Energy and Investment Project Officer **2014 – 2015**
North Glasgow Housing Association, Glasgow, Scotland, UK.

Key Account Administrator (Construction) **2009 – 2009**
GAP Group Ltd, Glasgow, Scotland, UK.

Project Administrator (Construction) **2008 – 2009**
Neary Construction, Glasgow, Scotland, UK.

EDUCATION HISTORY

PhD. Degree in Civil and Environmental Engineering **2018**

University of Strathclyde, Glasgow, Scotland, UK.
(Equivalent to a Doctorate in Civil and Environmental Engineering, as determined by Comparative Education Service, University of Toronto)

Thesis: *How best can ground source heat pumps be deployed in a public sector context?*

MSc. Degree (with merit) in Environmental Engineering **2010**

University of Strathclyde, Glasgow, Scotland, UK.
(Equivalent to a Master's in Environmental Engineering, as determined by Comparative Education Service, University of Toronto)

Taught modules: *Water & Environmental Management, Recycling Urban Land, Spatial Query & Analysis Using GIS, Environmental Impact Assessment, Air Pollution Control, Atmospheric Pollution Impact Assessment, Waste Management & Landfill Design, Site Investigation & Risk Assessment, Hydrogeology, Research Methodology with Environmental Monitoring & Analysis, Global Water Policy, and CIRIA Training for Brownfield Sites.*

BSc. Degree in Science Studies **2003**

University of Strathclyde, Glasgow, Scotland, UK.
(Equivalent to a Bachelor's in Science Studies, as determined by Comparative Education Service, University of Toronto)

Taught modules: *Environmental Legislation, Environmental Toxicology, Waste Management, Energy Studies, Environmental Analysis, Soil Science, Community Ecology, Ecological Techniques, Animal and Plant Biology, Analytical Chemistry, Contemporary Environmental Issues, Environmental Impact Assessment, Environmental Data Processing, Environmental Chemistry, Introduction to Environmental Management, Principles of Microbiology.*

References Available Upon Request