

ROYA PISHGAR

Environmental Engineering/Scientist

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June 6, 2019

-30- Forensic Engineering
Toronto, CA

RE: Application for Environmental Engineer or Scientist position

Dear Hiring Manager,

I am currently a PhD candidate in Civil & Environmental Engineering at the University of Calgary at the end of my program (expected time: July 2019). Spending 7+ years in science research environments, I've been able to gain technical knowledge about diverse scopes of environmental engineering, including site assessment and remediation of hazardous materials. As such, I am certain that I can excel in the position in question and provide value to your team.

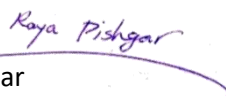
Conducting an internship and two graduate research projects, I have over seven years of science experience in Environmental Engineering, with a focus on biological wastewater treatment. I learned the fundamentals of fluid transport in soil in the undergraduate course "Soil Mechanics" which I passed with grade A (3.0 out of 4.0) and self-taught myself about pollutant transfer in soil and *ex-* and *in-situ* soil and groundwater remediation as a preparation for my PhD candidacy exam. Literature review, result interpretation and test evaluation, data management, and constant learning of different computer applications and software were integral parts of my research, to meet the milestones. During graduate programs, I escalated my written and oral communication skills by delivering clear and concise speeches in renowned national (*e.g.*, CWWA) and international (*e.g.*, IWA) conferences to audiences of 15 – 60 critiques in my fields. The results of my research contributions have been published in number of prestigious, rigorously peer-reviewed journals (*e.g.*, [Water Research](#) (2019), [Bioresource Technology](#) (2019), [Environmental Chemical Engineering](#) (2018), [Applied Biochemistry and Biotechnology](#) (2017), *etc.*).

In addition, I'm familiar with practical and conceptual aspects of running a business. I developed a family business (a retailing store) in 2013 in Iran and successfully passed a 5-day intensive graduate course about entrepreneurial thinking. I presume that my entrepreneurial approach, proven at a smaller-scale, can help me to quickly understand the large-scale business structure in your corporation, enabling me to meet your high clientele standards, understand the core values of the firm, and familiarize me with your firm's strategic plan.

My soft and interpersonal skills, such as time management, communication, teamwork, appreciation of diverse opinions, improved through my life experiences and leadership roles. The climaxes were moving to Canada and coaching two M.Sc. students. Moving alone to another country had a great contribution, as I made new friends from different backgrounds and had to cope with different lifestyles. To blend with the new community and pave my career path in a new country, I've had to overcome challenges and plan ahead to catch up with any sort of deadline. In addition, I enjoyed mentoring two young researchers in understanding the principles of environmental engineering aspects, planning experiments, and writing quality dissertation/scientific papers, who successfully defended their M.Sc. theses.

I am interested in this job opportunity, because it would allow me to put my theoretical knowledge and research expertise in practice in a result-oriented organization. Like -30- Forensic Engineering, I believe that the key to a successful business is smart reporting and effective communication between team members. If you would like to further discuss my qualifications, you can reach me at 587-433-6763 or roya.pishgar@ucalgary.ca.

Sincerely,


Roya Pishgar

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HIGHLIGHTS OF QUALIFICATIONS

- 7+ years of science research experience, accomplished via thorough problem solving, data collection and analysis, result interpretation, and conceptualization
- Self-initiative aptitude in managing diverse tasks with minor supervision
- Hardworking and detail-oriented to achieve goals in accordance with high quality standards
- Well-organized and adaptable to diverse environments and priorities, to meet stringent deadlines
- Fitting well in individual as well as team activities
- Capacity for quick learning

Core technologies:

- Microsoft Office (Word, Excel, Project, PowerPoint, Outlook)
- Data analysis: ArcGIS, SigmaPlot, SPSS, Macro, Statistica
- Design: CAD, Visio

EDUCATION AND LICENSES

Doctor of Philosophy (Ph.D.), Civil and Environmental Engineering **09/2014 – In progress**
🏛️ University of Calgary | 📍 Calgary, Canada | 🏆 Eyes High Recruitment Scholarship (most prestigious scholarship)

Business license **09/2013 – 09/2014**
🏪 Roya's Clothes Store | 📍 Babolsar, Mazandaran, Iran | 📄 License # 4/92/465

Civil Engineering Practice License – Supervision **01/2012 – To date**
🏛️ Ministry of Road and Urban Planning | 📍 Iran | 📄 License # 12-300-04405

Master of Science (M.Sc.), Civil and Environmental Engineering **09/2008 – 09/2011**
🏛️ Babol (Noshirvani) University of Technology | 📍 Babol, Mazandaran, Iran | 🏆 Top five students in a class of ~30

Bachelor of Science (B.Sc.), Civil Engineering **09/2002 – 04/2007**
🏛️ University of Mazandaran | 📍 Babolsar, Mazandaran, Iran

RELEVANT WORK EXPERIENCE

Ph.D. Research Assistant **09/2014 – In progress**
🏛️ University of Calgary | 📍 Calgary, Canada

- Project: Nutrient (ammonia and phosphate) removal using novel microbe agglomeration technology
- Optimized the system efficiency in terms of nutrient removal in purifying municipal and industrial waste streams
- Resolved encountered technical/operational issues with proper problem solving and timely result interpretation

Intern **09/2016 – 03/2017**
🏢 Hycura™ | 📍 Calgary, Canada

- Contributed to improve the product quality to enhance marketability by conducting laboratory experiments
- Provided follow-up and final reports for the industry partner in the specified time intervals on a timely manner
- Collaborated in publishing the outcomes as a [technical paper](#) in a prestigious, peer-reviewed journal

Founder and Manager (self-employed/entrepreneur) **09/2013 – 09/2014**
🏪 Roya's Clothes Store | 📍 Babolsar, Mazandaran, Iran



- Established the store with an investment cost of ~CAD1000; performed detailed market analysis; accomplished research to source product and estimate cost; achieved an annual revenue of ~CAD8,000 in the first year.
- Delegated specific tasks to family members; transferred successful business to the family in 2014 upon moving to Canada; 2017 annual revenue was ~CAD22,000

M.Sc. Research Assistant**09/2009 – 09/2011** Babol (Noshirvani) University of Technology |  Babol, Mazandaran, Iran



- Project: Biodegradation of phenolic compounds in anaerobic fluidized bed bioreactor
- Enhanced the efficiency of lab-scale anaerobic fluidized bed bioreactor in removing high concentrations of phenol, by immobilizing microorganisms in gel beads, to safeguard water resources against phenolic industrial wastes

ADDITIONAL WORK EXPERIENCE**Sales Associate****05/2019 – present** Aveda, Market Mall |  Calgary, Canada

- Assisting the customers using the product knowledge acquired about a wide range of merchandise in 2-3 weeks

Lecturer**03/2016 – 03/2018** University of Calgary |  Calgary, Canada

- Gave lectures in the graduate course of “Biological Processes for Wastewater Treatment” on the topics of “Anaerobic Ammonium Oxidation (Anammox)” for 3 semesters (lecture session = 1 hour) and “Phosphorus Recovery” for 1 semester (lecture session = 30 min) to a class of 15 students
- Was evaluated as the best lecture delivered by PhD candidates by the students

Teaching Assistant (part-time)**09/2014 – 04/2017** University of Calgary |  Calgary, Canada

- Assisted with undergraduate courses [Project Management II (2 semesters), Environmental Engineering II (1 semester), The Role & Responsibilities of the Professional Engineer in Society (2 semesters)]

Executive Assistant (part-time)**09/2005 – 09/2011** Pishgar Production Co. |  Ghaemshahr, Mazandaran, Iran



- Assisted with document preparation (e.g., correspondence, pro forma, invoices, packing lists) and cargo release
- Managed marketing and branding in two languages (Farsi/English), and maintained an organized computerized filing system to ensure effective flow of information

VOLUNTEER AND LEADERSHIP EXPERIENCE**Mentor (Two M.Sc. Students)****10/2015 – To date** University of Calgary |  Calgary, Canada**Award Task Force Lead****09/2016 – 04/2018** Sustainability Committee of Graduate Students' Association (GSA), University of Calgary |  Calgary, Canada

- Contributed to develop a new award by actively collaborating in writing a strategic grant proposal

My GradSkills Lead Ambassador**09/2015 – 04/2018** Faculty of Graduate Studies, University of Calgary |  Calgary, Canada

- Acted as student voice in Winter Graduate Orientation 2017 in a panel discussion to an audience of 50+

Vice-President of Communications and Media**09/2016 – 04/2017** Civil Engineering Graduate Society (CEGS), University of Calgary |  Calgary, Canada**Vice-Chair Communications****09/2016 – 04/2017** Crowsnest Engagement Team (CET), Residence Services, University of Calgary |  Calgary, Canada**INTEREST****Dancing:** Actively attended weekly classes since February 2015, to learn Latin American dances