

Mortuza Reza
m.reza@usask.ca

January 19, 2021

Stacie Howie
Laboratory Manager
Quantum Genetix Canada Inc.
Saskatoon, SK

Re: Application for the position of “Laboratory Technician”

Dear Stacie Howie,

I just came to know from your advertisement that your organization is looking for a Laboratory Technician. I have extensive experience in the physical, chemical, and biological analysis of samples from various sources that enable me to be advantageous for this position. I am currently working as a research technician in the cereal and flax pathology laboratory at the University of Saskatchewan, where I am responsible to establish and maintain various plant pathology research projects, assisting with fungal DNA extraction, mycotoxin analysis with HPLC-MS. I have worked as a laboratory technologist in a at the City of Saskatoon wastewater treatment environmental laboratory. I was responsible to do water quality analysis (bacteria, TSS, Alkalinity, Acidity, Hardness, Chloride, pH, conductivity, N, P, SO_4^{2-} , S^{2-} etc.) for the received samples and equipment verification. I have evaluated the effects of potential soil bacteria on plant nutrient uptake for my MSc research project (lentil and pea bio-fortification) and also help other lab members with molecular microbiology experiments, including DNA extraction and quality check, PCR, QP-PCR, PLFA etc. at the University of Saskatchewan. Besides these, I acquired strong interpersonal skills including; develop rapport with colleagues, great ability to motivate others, and always ready to take challenging responsibilities throughout my academic life by volunteering and working at different organizations.

I believe, working at Quantum Genetix Canada Inc. will be a great pleasure and an excellent opportunity for me. I am also confident that if you provided me the opportunity to serve your organization, I will prove myself to be an important and reliable team member through my dedication, sincerity, and the highest level of professionalism. I would like to request an interview at your convenience. For any query, please reach me at **306-713-9740** or e-mail me at **m.reza@usask.ca**. Thank you for your precious time and consideration.

Sincerely,
Mortuza Reza

Mortuza Reza

☎ (306) 713-9740

✉ m.reza@usask.ca

About Me

Highly self-motivated and well-organized individual, enthusiastic to create positive and welcoming impression, seeking a position in a professional team; where I can apply my educational and creative skills and have the opportunity to learn in-depth knowledge about molecular biology.

GENERAL SKILLS

- ✓ Capable of working independently and under pressure.
- ✓ Possess excellent decision-making, problem solving, multitasking and organizational skills.
- ✓ Strong ability to supervise, train, direct and motivate co-workers.
- ✓ Able to work as part of a team and assist co-workers when necessary.
- ✓ Strong sense of responsibility and outgoing with positive attitude.
- ✓ Class 5 driving licence.
- ✓ Registered Articling Agrologist (AAG) member at Saskatchewan Institute of Agrologists.

RESEARCH SKILLS

- ✓ Excellent knowledge about various growth media preparation, isolation, characterization, DNA extraction and quantification, identification and preservation of bacteria and fungi from water, soil and plant samples.
- ✓ Excellent knowledge about plant disease survey, water and soil survey, microbiology.
- ✓ Excellent knowledge about methods, techniques and procedures used in physical and chemical analysis of plant, air, soil and water samples.
- ✓ Experience in analyzing samples accurately with good precision using modern instrumentation including PCR, Q-PCR, acid-digestion, filtration, titration, spectroscopy, chromatography, colorimetric methods.
- ✓ Good knowledge about experimental design, statistical analysis and interpretation of results (R, SAS, JMP), digital record keeping, notes and log/lab books, LIMS (Element).
- ✓ Maintain and verification of laboratory equipment as per company's SOPs.

TRAININGS

COVID-19 Health and Safety certificate; Biosafety; Laboratory safety; WHMIS; Introduction to LC-MS/MS Operation Series by SCIEX; SAS for windows - introduction course; FS training - introduction to incur travel and expense; Three-month basic photography; First aid, CPR training.

COMPUTER EFFICIENCY

Analytical and graphing software, MS office, Outlook, photoshop and photo editing, Excel VBA, macros, computer troubleshooting, mid level web development, basic C and python programming.

EDUCATIONS

Master of Science, Soil Science, University of Saskatchewan	2017
Master of Science, Soil Science, University of Dhaka	2013
Bachelor of Science, Soil, Water and Environment, University of Dhaka	2011

LANGUAGE SKILLS

Bangla (Native) English (Fluent) Hindi (Conversation)

WORK EXPERIENCES

- ✓ Research Technician, Cereal and Flax Pathology, University of Saskatchewan, Saskatoon, SK, July 2019- present. (Maintain plant disease nurseries, increase pathogen inoculum, assisting with soil sampling, seeding, irrigation, weeding, harvesting, mycotoxin analysis, contribute to the annual research report and research protocol development, maintain efficient use of all resources, responsible for training and supervision of summer students, support and train graduate students to establish research experiments, coordinating with other research groups and manage lab inventory.)
- ✓ Laboratory technologist, Wastewater Treatment Plant, City of Saskatoon, October 2018- December 2018. (Collected water samples, performed routine and special water quality analysis, data validation and entry into LIMS, prepared summaries of data to report, equipment calibration, standard solution preparation, identified problems and informed operation group.)
- ✓ Counter Intelligence Agent, Geek Squad, BestBuy, Saskatoon, SK, September 2018- December 2018. (Solve and suggest solutions of software and hardware related problems for computer, tablet, cellphones, data transfer, virus removal, hard disk replacement etc.)
- ✓ Graduate Research Assistant, University of Saskatchewan, Saskatoon, SK, 2013 – 2017. (Assisted and collaborated with other researchers to establish and execute research experiments about isolation and evaluation the potential use of bacteria in agriculture. I also assisted other researchers, trained new students, supervised lab technicians and summer students to carry out field and lab experiments. I was also responsible of making my research budget, order supplies accordingly and managed all routine lab activities to maintain safe lab practices.)
- ✓ Tech help peer mentor, 2015-16, Student Learning Services, University of Saskatchewan. (Conducted basic computer training workshops about different applications (R, JMP, SAS, MS office etc.) and helped students to use available technologies for their academic career.)
- ✓ Judge for Saskatoon Regional Science Fair, 2015, 2016 and 2017 (Evaluated various science

PRESENTATIONS

- ✓ Graduate student seminar presentation, department of soil science, University of Saskatchewan, Saskatoon, August 25, 2017, “Assessing the effect of siderophore-producing bacteria for the iron nutrition in lentil and pea”.
- ✓ Rhizosphere 4 International Conference, Maastricht, Netherlands, June 21-25, 2015, “Can Fe-chelating bacteria increase bioavailable Fe content in lentil (*Lens culinaris* L.) and pea (*Pisum sativum* L.)?”.
- ✓ International Food Legumes Research Conference (IFLRC VI) and 7th International Conference on Legume Genetics and Genomics (ICLGG VII) July 6 – 11, 2014, Saskatoon, "Can Fe-chelating bacteria increase bioavailable Fe content in lentil (*Lens culinaris* L.)?”.

INTERESTS



Agriculture



Computer



Business



Photography



Soccer



Travel

References:

Tonima Islam, MSc

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