Laboratory Assistant/Technician – Biosensors Device Development

Closing date – Open until filled

This position has a term length of less than a year with the possibility of extension
Full-time, Grant funded
Casual level 1- Trust
Grade 5, 37.5 hours/week
Salary range: $41,903-55,761 or $23-31/hour

The Wishart lab group at the University of Alberta's Department of Biological Sciences is a world leader in metabolomic research. We are currently seeking a laboratory assistant/technician to work on a project developing biosensor devices for quantitative analysis of specific metabolites in body fluids. The goal of the project is to create a portable, inexpensive sensor system for detecting a range of metabolites in body fluid samples for various diseases screening. Prior experience in analytical chemistry, biological chemistry, sensor design, or metabolomics would be an asset.

Dr. David Wishart is a Distinguished University Professor in the Department of Biological Sciences at the University of Alberta. He is a highly respected scientist who operates one of the largest and best-equipped laboratories at the University of Alberta. His research facilities are situated in the Department of Biological Sciences and the Centennial Centre for Interdisciplinary Sciences on the University of Alberta campus. Dr. Wishart's laboratories contain more than $10 million in cutting-edge analytical equipment and high-end computers to support some of the world's most advanced metabolomics, cheminformatics and bioinformatics research. Dr. Wishart has active research programs in precision health, cancer (lung, breast), infectious diseases (COVID-19), neurological diseases (Alzheimer's, ALS), kidney diseases, animal/livestock health, forestry research, microbiome research, food chemistry, structural biology, portable sensor systems and metabolomics technology development. He has active collaborations with more than 30 scientists around the world. His laboratory also maintains more than 70 online scientific databases and webservers that routinely receive more than 35 million web accesses each year. Additional information about Dr. Wishart and his laboratory can be found on The Metabolomics Innovation Centre (TMIC) website at www.metabolomicscentre.ca

Duties

- Performs basic molecular biology techniques such as plasmid transformation/transfection, cloning and further clone selection
- Performs basic biochemical techniques such colorimetric assays on routine basis as assigned by the supervisor
- Performs protein biology related experiments such as protein purification, SDS PAGE and various chromatography

- Maintains cell lines in culture
- Prepares and autoclaves media and other essential and basic laboratory tasks
- Maintains and troubleshoots lab protocols and assist with SOP writing
- Maintains laboratory chemical, plasmids, primers and cell stocks databases
- Performs data analysis
- Prepares power point presentations to present progress and experimental results to PI
- Maintains lab supplies including reagents, primary and secondary antibodies, plasmids and cell lines

- Ensures the laboratory complies with WHMIS, biohazard and radiation regulations

Qualifications

- Bachelor's degree with minimum of 3 years laboratory experience or a Master's degree in Biochemistry, Cell Biology, Biotechnology or a related field is preferred
- Experience in cloning, expression and purification of proteins
- Good computer skills for data collection
- Experience with operation of common biology and chemistry laboratory equipment
- Excellent skills in handling small amounts/volumes of reagents
- Strong organizational skills, oral and written communication skills
- Demonstrated attention to details and problem-solving skills
- Self-starter and sensitive to project timelines
- Ability to collaborate with others and be a good team player
- Ability to interact effectively within a dynamic team-based research environment

To Apply:

Please send inquiries and applications to Dr. Wishart administrative team at: wishartadmin@mailman.srv.ualberta.ca.

Applications should include a cover letter, CV as well as the names and contact information of three references.

Closing date: We will begin considering applications immediately until the position is filled.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

How to Apply

Email wishartadmin@mailman.srv.ualberta.ca.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered. The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.