



Data manager position at Agri-Food Data Canada

Position Description

We are seeking candidates for a data manager position. The data manager will be responsible for the design, creation, configuration, management, maintenance, daily operation, security and performance of a research database of agri-environmental data. This will be an accessible database of research data from numerous field sites across Canada. Each site will be continuously (24/7, year-round) measuring 50+ variables with environmental sensors. Researchers need the data organized and managed for individual research projects. The accessible archive of data will be used by researchers outside of the organization and thus all information in the database/warehouse/portal needs documentation for the correct interpretation of the data.

Duties will include:

- Design and oversee the development and implementation of a modern data enterprise architecture, using best practices and enabling a user-centric, adaptable, automated, flexible, collaborative, and governed environment for researchers.
- Lead the development and management of a full data warehousing/data lake solution for data collected through a variety of sources.
- Assist in development of policies and governance for data including quality of data.
- Keep the database up-to-date with research data
- Create standardized documentation compiling information on sensors, measurements, and processing of the variables measured.
- Continually maintain data quality
- Generation protocols for data processing, or website development.
- Providing IT support.

This research will be conducted in collaboration with the Global Center NICCEE (niccee.org) program at the University of Guelph, Ontario, Canada, which involves partners at the University of Maryland and Rothamsted Research. This one-year position will preferably commence June 1, 2024, with the opportunity for a one-year extension. Start date is negotiable.

The University of Guelph resides on the ancestral lands of the Attavandaron people and the treaty lands and territory of the Mississaugas of the Credit and we offer our respect to our Anishinaabe, Haudenosaunee and Métis neighbours as we strive to strengthen our relationships with them.

Qualifications

- Master's Degree – or higher- Bioinformatics/Data Science or equivalent combination of education and related experience.
- Experience analyzing, modeling, and integrating data in a large and complex research data environment.
- Strong experience in data wrangling.
- Strong knowledge of Linux systems (Ubuntu and RaspberryPi), and SQL database technologies (PostgreSQL, MySQL, and SQL Server).
- Knowledge of Docker/Docker-compose, Reverse Proxy, JavaScript, CSS, HTML, and Bootstrap is an asset.
- Knowledge of environmental measurements (e.g., temperatures, moisture, air gas concentrations, etc.) an asset.
- Experience working with research software (e.g. SAS, R, Python, C++, FORTRAN, PERL, etc.), database software (SQL), web applications (e.g. Drupal), statistical software (SAS, R, Matlab etc.), and other Cisco network configuration and management.
- Exceptional written and oral communication skills, including the ability to present ideas and suggestions clearly and effectively.
- Self-motivated; able to work independently to complete tasks and respond to staff and researcher requests and to collaborate with others to utilize their resources and knowledge to identify high quality solutions.
- Excellent judgement, strong analytical and problem-solving skills.
- Strong organizational and attention to details skills.
- Proven leadership skills, ability to motivate and coach staff and students.

Application

Submit via email with the subject line “Data manager – Your Name” to Dr. Michelle Edwards (edwardsm@uoguelph.ca). Please include : 1) a cover letter stating your motivation for applying to this position, 2) resume, and 3) contact information for up to three references. Applications will be reviewed as they are received. The positions will remain open until filled. The expected salary range is ~\$60,000-\$70,000. We thank all applicants for their interest, however, only those individuals selected for an interview will be contacted.

At the University of Guelph, fostering a [culture of inclusion](#) is an institutional imperative. The University invites and encourages applications from all qualified individuals, including from groups that are traditionally underrepresented in employment, who may contribute to further diversification of our Institution.

The University recognizes that applicants may have had obligations outside of work that have negatively impacted their record of achievements (e.g., parental, elder care, and/or medical). You are not required to disclose these obligations in the hiring process. If you choose to do so, the University will ensure that these obligations do not negatively impact the assessment of your qualifications for the position.

If you require a medical accommodation during the recruitment or selection process, please contact Occupational Health and Wellness at 519-824-4120 x52674.