IMPROVE LIFE.

Postdoctoral fellow position: Effect of climate change-related stressors on wheat quality

The University of Guelph resides on the treaty lands and territory of the Mississaugas of the Credit. We recognize this gathering place where we work and learn is home to many past, present, and future First Nations, Inuit, and Métis peoples. Our acknowledgement of the land is our declaration of our collective responsibility to this place and its peoples' history, rights, and presence.

The Lyons (Department of Plant Agriculture) and Joye (Department of Food Science) Labs at the University of Guelph are seeking a postdoctoral fellow to lead a project aimed at investigating the effect of climate change-related stressors on wheat quality and to bridge their research expertises. The newly appointed postdoctoral fellow will be involved in a multidisciplinary, industry and society-driven research project. The effect of drought and temperature stress will be investigated on plant physiology, wheat yield, processing quality and food safety. The fellow will collaborate between the Departments of Plant Science and Food Science at the University of Guelph.

Research environment
The research teams of which the successful candidate will be part are dynamic, young and ambitious teams investing in high quality research, intensive training of students, close collaboration with industry and society, and advocating EDI principles. Both teams focus on a balanced research portfolio covering applied as well as fundamental topics.

As a postdoctoral fellow in our teams, you can expect the following:
- Mentoring and support in research, outreach and career goals
- Collaborative and supportive work and research environment committed to promoting equity, diversity and inclusion
- Opportunities to establish a professional network and long-term partnerships with our partner organizations

Job responsibilities
The candidate will be responsible for providing support with wheat growth trials, wet lab work on plant and food samples, and advanced data analysis. Wet lab work will involve diverse spectroscopic, chromatographic and imaging techniques. The candidate will develop standard operating procedures and data management strategies, contribute to grant proposal writing, and provide the project stakeholders with semesterly updates through meetings and annual reports outlining the research progress. Other tasks include mentorship on lab safety procedures for junior lab members, lab management responsibilities, organization of and participation in EDI training and activities, and organization of knowledge translation and transfer activities.

Candidate profile
The ideal candidate would have recently (< 2 years) graduated from a PhD program in plant biology/science and/or food chemistry/science and demonstrate a keen interest in taking on a leadership position in interdisciplinary research. Due to the collaborative nature of the project the fellow needs to be an enthusiastic team player who is able to work independently and lead a small team, and demonstrates excellent organization, people and project management, and written and oral communication skills.

Required qualifications
We are looking for an enthusiastic and responsible addition to our research teams with the following qualifications:
- A Ph.D. degree in a relevant field (such as (but not limited to) plant biology/science and food chemistry/science)
- Demonstrated organizational, time and project management skills
- Strong background in chemical wet lab work
- Demonstrated experience in data collection, analysis (statistics) and management skills
- Publications as first author in peer-reviewed journals
- Eager to sharpen leadership and mentorship skills for junior team members
- Interested in close collaboration with government and industry partners
- Capable to work as an independent, critical, responsible and flexible researcher
- Open to think and work interdisciplinary
- Capable to deliver timely the required project reports in English
- Interested in contributing to grant proposal development and writing
- Capable to present research results at project meetings and conferences in English
- Keen to integrate in an international research team and be an active participant in and an advocate for EDI initiatives and training

Job details
This is a full-time position (35 hours per week) for one year (with option to extend to three years) with salary commensurate with experience. The work requires on-campus presence.

To apply, please send the following documents to ijoye@uoguelph.ca by February 7, 2024:
- A CV
- A publication list
- Research statement with description of past research accomplishments and current research interests (1-2 pages)
- Copies of 2 publications (preprints are welcome)
- Contact information of three references

Review will begin February 8, 2024, and applications will be considered until the position is filled, selected candidates will be contacted for an interview. The position has an anticipated start date of **April 1, 2024** (though other timelines can be accommodated). Questions about the position can be directed to ijoye@uoguelph.ca with subject line ‘climate change and wheat quality postdoc position’.