

### *Research in the areas of bio-based polymeric materials and engineering - MAsc and PhD Program in Biological Engineering*

*The Master of Applied Science & Doctor of Philosophy in Biological Engineering is a full-time program based on coursework at the School of Engineering and research intense program conducted at the Bioproducts Discovery and Development Centre, University of Guelph.*

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| Degree Location     | Guelph, Ontario, Canada                   |
| Entry Terms         | Fall, Spring or Summer semester           |
| Deadlines           | Applications are currently being accepted |
| Degree Requirements | Masters degree in Engineering             |



#### **About BDDC**

BDDC is a well resourced facility, unique to Ontario, provides opportunity for companies, entrepreneurs, and research organizations to partner with university-based researchers toward development of commercial new biomaterials, bioplastics, biocomposites, biochemical and process technologies.

The BDDC is staffed by graduate and post-doctoral students working in the areas of polymer science, chemical engineering, advanced material science and applied microbiology.

Commercial application of research results is a guiding principle for the BDDC. Innovations coming from the BDDC help companies in their efforts to reduce greenhouse gas emissions and their environmental footprint.

#### **Graduate Opportunities**

There are several openings for graduate students wishing to pursue a Graduate degree in the research areas listed below:

- Bioplastics and Biobased polymers
- Biocomposites (Natural Fibre Composites) and Polymer Blends
- Green Composites including recyclability, durability and biodegradability studies
- Biobased Nanocomposites and Nanoblends
- Biomass and Biomaterials Sustainability
- Value-added Biobased Materials from the Coproducts/Byproducts of Biofuel Industries
- Biodegradability (Compostability)

Research component of the graduate school requirements will be conducted within the Bioproducts Discovery and Development Centre (BDDC), University of Guelph. The candidate will have the opportunity to work with senior scientists from different areas (materials science and engineering, chemical engineering, mechanical engineering, polymer chemistry, packaging and plant agriculture) and will have the chance to work collaboratively with industrial partners.

#### **Qualifications:**

1. For entry in the PhD program in Biological Engineering (School of Engineering), candidates must hold a Masters degree in Engineering
2. If your first language is not English, you will be required to submit the results of a standardized language test. Please [see chart](#) for acceptable tests and required scores at <https://www.uoguelph.ca/graduatestudies/future/international>

## How to Apply

### A: Application to the BDDC selection committee

Please send:

- a cover letter outlining qualifications for the position and earliest date of availability;
- 1-page summary outlining your interest and motivation to work in the Bioproducts Discovery and Development Centre (BDDC). For more information about BDDC, please visit <http://www.bioproductscentre.com/> ; and
- CV (curriculum vitae) needs to include your: (i) training information and degrees obtained (month and year), (ii) GPA throughout your education, (iii) list of courses during your education most relevant to this position, (iv) list of your publications and presentations, and (v) contact information for three references.
- **send your pre-application package** with above documents to [bddcpositions@uoguelph.ca](mailto:bddcpositions@uoguelph.ca), with the subject heading "PhD in Biological Engineering".

### B: Application to the Graduate Studies at the University of Guelph, School of Engineering

In addition to the BDDC selection process, each candidate interested in pursuing a graduate degree at the University of Guelph is required to apply through the admission process for Graduate Studies at the University of Guelph.

For general information about graduate programs at the University of Guelph please visit <https://www.uoguelph.ca/graduatestudies/future/students> .

For information about graduate programs at the School of Engineering please visit:

<https://www.uoguelph.ca/engineering/graduate> .

To conveniently apply on-line and learn more details about the application process and required documents, please visit: <https://www.uoguelph.ca/graduatestudies/future/applying-guelph> .

## For More Information

### Admissions and Applications

#### Graduate Secretary

soegrad@uoguelph.ca  
519-824-4120 ext. 56187

### Program Information

#### Jason Tyszka

jtyzka@uoguelph.ca  
519-824-4120 ext. 52433

Students may attend from anywhere in the nation and, if they have a strong command of writing and reading English, from around the world.

#### Visit us at

<http://www.bioproductscentre.com>



## Frequently Asked Questions

In order to serve you better, the Office of Graduate Studies has created a [Frequently Asked Questions](#) (FAQ) section to assist you with the admissions process: [www.uoguelph.ca/graduatestudies/future/faq](http://www.uoguelph.ca/graduatestudies/future/faq)