**Undergraduate Research Opportunity**

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| Area of Research or Title of Proposed Research Project: The application of modelling, digital tools and data analytics to solve animal production system challenges |
| Name and department of the supervisor: | Type of the research opportunity available (check all that apply)  x Research in Animal Biology (ANSC4700/4710)  □ Research Volunteer |
| Semester(s) and Year, **F2024/W2025**  | Application deadline: |
| List 2-5 specific things you feel a student will learn during this position.1. How to conduct a systematic literature review
2. Database development
3. Data analytics
4. Introduction to mathematical modelling
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| Which 2-5 knowledge, skills, or attitudes are most relevant to this position? 1. Knowledge: Scientific
2. Knowledge: Digital and Technical
3. Skill: Critical and Analytical Thinking
4. Skill: Problem-Solving
5. Attitude: Persisitence
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| Application Requirements 1. Indicate the research course code on the cover letter accompanying the application package 2. Meet minimum course requirements, as outlined in the Undergraduate Calendar  |
| Courses and/or Experiences that are Required or Recommended for the proposed position (s)Recommended: ANSC\*4040, AGR\*3200, or other computational courses (statistics, genetics, math, programming) |
| Contact information: Dr. \_Jennifer Ellis\_\_\_ Email\_\_jellis@uoguelph.ca\_, Phone \_519-824-4120 x 56522\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Documents Required of Applicants**

Cover Letter, Resume or CV, Unofficial Transcript

Statement of Interest in Research, addressing the following questions: Why do you want to do research (and in particular a 4th year project)? Why do you want to do research in this lab specifically? What are your future goals/aspirations, for example, are you potentially interested in graduate research work or even research as a career?

\*Submit your application package to the faculty members offering research projects that interest you. You may apply for up to five (5) projects.