**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 | | |
| 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 | | |
| 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.