



Graduate Student Opportunity in Microbiology or Biochemistry.

ABOUT THE PROJECT

A MSc/PhD graduate student position is available in the laboratory of Dr. Anthony Clarke in the Department of Molecular and Cellular Biology in the College of Biological Science [https://www.uoguelph.ca/mcb/people/faculty/faculty_clarke].

The proposed project is in the area of antibiotic discovery. Research in the Clarke laboratory concerns investigating the structure and function relationship of enzymes involved in the metabolism of the essential bacterial cell wall polymer peptidoglycan. Specific reactions in its biosynthesis have proven to be effective targets for antibiotic therapy, including the inhibition of peptide cross-linking within the cell wall by the β -lactam class of drugs (penicillins and cephalosporins). Our studies focus on the events within the cell wall with the aim to identify new potential targets for antibiotic development.

The position is available immediately available and will remain open until filled.

REQUIREMENTS

Independent and self-motivated applicants with strong background in biochemistry, molecular biology and/or microbiology are encouraged to apply. Past laboratory experience (undergraduate research project, volunteering or similar) is an asset.

This position is open to Canadian citizens or permanent residents.

FUNDING

MSc students in the College of Biological Science are funded at a minimum of \$21,259 per year, and the minimum guaranteed duration of support is 6 semesters. For more details regarding funding, see [Student Stipend Information](#).

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PhD students in the College of Biological Science are funded at a minimum of \$25,259 per year, and the minimum guaranteed duration of support is 12 semesters. For more details regarding funding, see [Student Stipend Information](#).

Depending on eligibility, students may also apply for a wide range of internal and external scholarships. See the full list of available [Scholarships and Awards](#) for more information.

INTERESTED in APPLYING?



Interested applicants should submit a CV, unofficial transcript, a letter describing their research interests and career goals, and contact information for two referees to Dr. Clarke(acclarke@uoguelph.ca).

WHY CHOOSE GUELPH?

The University of Guelph is consistently ranked as one [of Canada's top research universities](#) and our faculty attract more research dollars per capita than any other comprehensive university in Canada.

The [Department of Molecular & Cellular Biology](#) resides within the College of Biological Sciences and provides a stimulating environment to pursue graduate studies in the molecular biosciences. The department's 40 faculty members direct research programs that involve multidisciplinary approaches to address novel biological questions at the level of organization of molecules to cells. Research in MCB spans a range of important eukaryotic and prokaryotic systems, and addresses fundamental and applied research problems.

LOOKING FOR MORE INFORMATION?

[Office of Graduate Studies](#)

[College of Biological Science](#)

[Living in Guelph](#)

