

UNDERGRADUATE STUDENT SUMMER RESEARCH PROGRAM

General Information: In order to encourage highly qualified and motivated undergraduate students to seek a research career in physiology, the Physiology and Biophysics Department has established a Summer Student Research Program. In addition to providing a valuable student learning experience, the program is intended to enhance research capacity in the Faculty of Medicine.

The award provides up to 50% stipend support for the summer student research experience. This support is contingent on matching funds supplemented from other agencies and/or from the supervisor. The student and the supervisor are encouraged to apply for support from an agency providing summer research awards such as the Dalhousie Medical Research Fund, NSERC Summer Studentship, Cystic Fibrosis Canada Summer Studentship or a variety of competitive programs offered by other foundations and pharmaceutical companies. Supervisors are expected to provide matching fund support where necessary from grants or academic funds.

Eligibility: The program is available to all full-time Physiology and Biophysics faculty who can provide a research project, space, equipment and expertise to mentor a student.

Deadline: Applications must be submitted by **April 26th** and will be considered at the next meeting of the Academic Planning Committee. Application forms are available from the Physiology Office or can be downloaded from our website. **Once you have completed the application, save the file (including appendices) as one single pdf document. Email the completed document to Alice.Smith@Dal.Ca** Send the original signed application to: Alice Smith at the Department of Physiology and Biophysics, Dalhousie University Both the electronic and hard copy must be received by 4:00 pm on the deadline date.

Faculty/staff members may apply as a supervisor for only one summer student position, but may also be listed as co-supervisor on additional applications. Students are eligible if they are currently enrolled in a university undergraduate program at the time of application.

Because this award is for full-time summer participation in a research program, students taking remedial courses or requiring supplemental exams will not be eligible for the studentship award.

Amount of Awards: Awards are intended to provide up to 50% (maximum \$2,500) of the full student stipend of \$5,000. Where external award funding is received in excess of the required \$2,500 match, the departmental award will be reduced by the excess amount. The total stipend (departmental and matched or external funds) will equal the full Student Summer Research Program stipend (\$5,000).

Responsibility of the Supervisor: The supervisor will ensure that the student has appropriate supervision throughout the summer program and attend any Department of Physiology and Biophysics Seminar Series. Supervisors should be familiar with supervisor responsibilities as outlined by Dalhousie University with particular attention to scientific integrity and ethical protocol. Students must be trained on appropriate safety measures for the lab and must abide by confidentiality requirements of the lab supervisor.

Responsibility of Students: successful students will be required to:

- Submit an abstract outlining their summer project,
- Submit a program evaluation form.
- Participate in mandatory presentation of their project near the completion of their summer term.

Note: Medical students participating in this program are encouraged to submit the results and analysis of their summer research project to the annual Faculty of Medicine Awards Competition.

All reports are due October 1. These above mandatory reports are the primary means of judging the success of the Summer Student Research Program. The Academic Planning Committee will consider compliance with this expectation in any future requests for research support from the supervisor.

APPLICATION FOR A PHYSIOLOGY AND BIOPHYSICS SUMMER STUDENT RESEARCH PROGRAM

Deadline: April 26th

Each grant application must be single-sided, single-spaced, using a font of 12 point and with margins of one inch. Each grant application must contain the following in order to be considered complete. Incomplete applications will not be considered and will be returned to the applicant without review:

1. A complete Information Form, signed and dated.
2. Research proposal (max 3 pages) excluding references.
 - Either the student or the proposed supervisor can complete this section.
 - Summarize the current state of knowledge relating to the research proposal. Ensure that the following is included:
 - i. Title of project
 - ii. Hypothesis to be tested or series of questions to be tested
 - iii. Rationale
 - iv. Experimental design or methods
 - v. Role of the student (including the benefits for the student)
 - vi. Outline of events

Outline proposed research to be undertaken by the student. Indicate how this project will fit into your research program and what experience the student is expected to gain. **Clearly identify the role of the student including an outline of events throughout the research period. The proposal must clearly indicate how the project will enhance the student's understanding of research and how it is based on a research hypothesis or testable question.**

3. Lay summary (to be completed by the student) - An abstract summarizing the project, including a statement of what issue the project addresses and a description of why the work is important to furthering knowledge in the area (not to exceed 200 words).
4. A copy of the most recent unofficial transcripts. (Medical Students please also include undergraduate transcripts)
5. Letter from supervisor
6. Maximum two-page CV from the student
7. Biosketch from the proposed supervisor: Education/Employment; list of peer reviewed publications from the last five years; list of grants currently held and applied for; list of trainees supervised in the last five years
8. Ethics approval form (if applicable)

Application Checklist

- ☐ All sections of Pages 4 and 5 (Information Form) completed
- ☐ Research proposal
- Proposal Completed by: ☐ Supervisor ☐ Student
- ☐ Lay summary
- ☐ Copy of unofficial transcripts
- ☐ Letter of support from proposed supervisor (attached)
- ☐ Student's CV (attached)
- ☐ Supervisor's abbreviated CV (attached)

Once you have completed the application, save the file (including appendices) as one single pdf document. Email the completed document to alice.smith@dal.ca

Send the original, signed application to: Alice Smith, Department of Physiology and Biophysics, Dalhousie University.
Both the electronic and hard copy must be received by 4:00 pm on the deadline date.

Applications must be received by 4:00 pm, Friday, April 26, 2013

APPLICATION FOR A PHYSIOLOGY AND BIOPHYSICS SUMMER STUDENT RESEARCH PROGRAM

Information Form

Name:

Class of:

E-Mail Address:

Degree	Date Conferred	University

Certification Requirements

If this proposal involves any of the following, check the box (es)
and submit the protocol to the university/hospital committee

- ☐ Research involving humans
☐ Research involving animals
☐ Research involving biohazards or radioactive
material

Students cannot receive funding to work on summer projects that have not received REB or UCLA approval (if required).

Supervisor:

Name:

Amount of time per week that you will be available to the student:

Amount of time you may expect to be away during the summer research period, and what plans have been made for supervision of the applicant's work:

Student's Name _____

In the space provided below (150 words or less), briefly outline your interest in this project – **to be completed by the student**

Date

Signature of Student

Date

Signature of Supervisor

Research proposal (one page only).

☐ Supervisor has read & approved this research proposal

Supervisor's Signature: _____

Begin proposal here:

Lay summary (to be completed by the student) - An abstract summarizing the project, including a statement of what issue the project addresses and a description of why the work is important to furthering knowledge in the area.