

# **Summer Undergraduate Research Program Application 2024**

# The Program Benefits:

Undergraduate students selected to participate will receive scholarship support to engage in a summer research experience at Trudeau Institute. This program will be an immersive 10-week program in which Scholars receive didactic training in experimental design, biosafety and animal care, scientific ethics and professional development. In addition, Scholars will receive hands-on training in core facilities such as microscopy and flow cytometry as well as conducting cutting edge infectious disease research with leading experts in the field. Scholars have a competitive advantage in the application process for graduate and professional school; and many have gone on to successful biomedical research careers.

## Application Process (due Feb 9, 2024):

Fill in your personal information, including your university, academic major and minor (if applicable), courses taken, and grades earned in those courses. Alternatively, you may attach an unofficial copy of your transcript. Attach a statement describing your interest in research and career goals. Please see the third page of this application for a list of our mentors and a brief description of their research. Please indicate your top 3 choices for a mentor. Send the application and arrange to have two letters of reference sent to Deb Brown: <u>dbrown@trudeauinstitute.org</u>

### **Personal Information:**

Name:	Permanent Address:			
Phone #:	Email:			
Current University		Major		
Minor	Graduation yea	r		
Courses taken in your 1st year	of University:			
Semester 1 courses	Grade	Semester 2 courses	Grade	

### Courses taken in your 2<sup>nd</sup> year of University

Semester 3 courses	Grade	Semester 4 courses	Grade

Current overall GPA:\_\_\_\_\_

STEM GPA: \_\_\_\_\_

List previous work or research experience:

Tell us about your **research interests and career goals** (include any past lab or research experience, if applicable and what you hope to gain by participating in the summer undergraduate research experience, attach another page if necessary):

### Please see the list of participating faculty on the website:

Students will be paired with mentors based on students' research interests. Please choose your top three mentors:

Mentor 1:

Mentor 2:

Mentor 3:

Also, provide the names of two references. Ask your references to send their reference letters by email to <u>dbrown@trudeauinstitute.org</u> by the application deadline.

1.\_\_\_\_\_

2.\_\_\_\_\_

Please take this brief survey on research techniques, it's ok if you've never done a lot of these techniques, you will learn many of them during the summer program.

Indicate how many times you have performed the following:

<u>Micropipetting:</u> never	once or twice	sometimes	I do it all the time
Buffer Preparation: never	once or twice	sometimes	I do it all the time
Mammalian Cell Culture never	once or twice	sometimes	I do it all the time
<u>Microbial Cell Culture</u> never	once or twice	sometimes	I do it all the time
<u>Flow Cytometry</u> never	once or twice	sometimes	I do it all the time

#### Fluorescence Microscopy

never	once or twice	sometimes	I do it all the time
<u>Histology</u> never	once or twice	sometimes	I do it all the time
<u>Microplate Reader Ope</u> never	eration once or twice	sometimes	I do it all the time
<u>Gel Electrophoresis</u> never	once or twice	sometimes	I do it all the time
Real time PCR never	once or twice	sometimes	I do it all the time
<u>Transfection:</u> never	once or twice	sometimes	I do it all the time
<u>Transformation:</u> never	once or twice	sometimes	I do it all the time
<u>Rodent Restraint</u> never	once or twice	sometimes	I do it all the time
Injections never	once or twice	sometimes	I do it all the time