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# Theoretical Physics Research Summer Internship

Paid (Full-time) (30 hrs/wk or more)

Perimeter Institute for Theoretical Physics

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## Job Type

Paid (Full-time) (30 hrs/wk or more)

## Desired Skills

Theoretical Physics

Physics

## Job Description

Perimeter Institute's Undergraduate Theoretical Physics Summer Program provides students entering the final year of their undergraduate program the opportunity to participate in groundbreaking research at a world-leading theoretical physics institute. Students will learn research tools and collaboration skills while immersed in the multi-disciplinary environment of one of the leading research centres for theoretical physics.

This program consists of two parts:

1. Two-week Summer School (fully-funded): Twenty successful applicants will spend two weeks immersed in Perimeter's dynamic research environment – attending courses on cutting-edge topics in physics, learning new techniques to solve interesting problems, working on group research projects, and potentially even publishing their work. A more detailed schedule will be posted once it is available.
2. Research Internship: Applicants may also apply for an optional paid summer research internship. Accepted students will work on projects alongside Perimeter researchers. Students will have the rare opportunity to develop their research skills and absorb the rich variety of talks, conferences, and events at Perimeter Institute. Students chosen for an internship will be emailed with the project proposals. Selection for the internship will occur at the same time summer school students are

Example research internship projects list:

- Understanding the chirality of quantum states (Quantum Information)
- Tidal effects for compact objects in scalar-tensor theories (Strong Gravity)
- Deriving statistics inequalities from measuring quantum states (Quantum Information)
- Entanglement in two-dimensional gauge theory (Quantum Fields and Strings)
- Automating the decomposition of group representations (Quantum Foundations)
- Geometry of Flag Configurations (Geometry and Algebraic Geometry)
- Universe with a thermal origin (Cosmology)

On the online application, applicants can apply for the two-week summer school or for both the summer school and the research internship. Summer school and paid internship positions will be awarded by February 28, 2020. Selected interns will be contacted in February with the research projects topics. All research interns must complete the two-week summer school.

## IMPORTANT DATES

Selection timeline: approximately February 28, 2020. Both summer school attendees and interns will be selected by this time.

Two-week summer school: May 25 to June 5, 2020.

Research Internship: May 1 to August 28, 2020. (negotiable)

[FAQ?s](#)

## How do I submit letters of recommendation?

Upon completion of the online application, the system will automatically contact your referees with details on how to submit their reference letters.

**What kind of visa do I need?**

You need a visitor visa and/or eTA. You are only coming here to visit.

**Are there any fees to apply?**

No.

**Do I have to pay a fee to attend the program?**

No, the two-week summer school is fully funded.

**Are the internship positions awarded based on performance during the summer school?**

No, internship positions will be awarded around February 28, 2020 and will be based on your initial application.

**Will I be disadvantaged in the summer school selection process if I also apply for the internship?**

No.

**I am entering my last year, but I meet all the other criteria, may I still apply?**

Yes, exceptions are allowed.

**Qualifications**

A demonstrated interest in the program and entering the final year of their undergraduate program (for special exceptions, please contact Diana Gonsalves at [dgonsalves@perimeterinstitute.ca](mailto:dgonsalves@perimeterinstitute.ca))

**Hours Per Week**

35

**Job Location**

Waterloo, Ontario Canada

**Job Nature**

Internship

**Website**

<http://www.perimeterinstitute.ca/internship>

**Preferred Degrees/Disciplines**

Science/Environment/Agriculture

**Additional Documents (preferred)**

Cover Letter, Unofficial Transcript

**Experience Level**

Current Students in an Undergraduate Program

**ID**

874250

**Salary Type**

Monthly

**Is this position paid or unpaid?**

Paid

**Job Length**

August 28, 2020 - work dates are negotiable

**Organization Type**

Not-for-Profit

MLA citation:

UBC CareersOnline. "Theoretical Physics Research Summer Internship ." *UBC CareersOnline*, 27 Nov. 2019, [ubc-csm.symplicity.com/students/app/jobs/detail/5bbb0b71dc90b31e12f53e1fe64f346c](https://ubc-csm.symplicity.com/students/app/jobs/detail/5bbb0b71dc90b31e12f53e1fe64f346c). Accessed Dec. 12, 2019.