



# PIMS AT-A-GLANCE

The Pacific Institute for the Mathematical Sciences (PIMS) is a consortium established by universities in western Canada and the Pacific Northwest. Our mandate is to promote research in and applications of the mathematical sciences, to facilitate the training of highly qualified personnel, to create an equitable, diverse and inclusive community, to enrich public awareness of and education in the mathematical sciences, and to create mathematical partnerships with similar organizations in other countries (with a particular focus on the Pacific Rim). PIMS funds Collaborative Research Groups, Post-Doctoral Fellowships and individual events on a competitive basis.

PIMS activities are funded by the member universities, by the Natural Sciences and Engineering Research Council of Canada (NSERC), and by private donors.

PIMS strongly believes that equity, diversity and inclusion strengthen the mathematical community by increasing the impact and relevance of research; widening the pool of qualified potential participants; and enhancing the integrity of the programs. The programs and groups we support should promote and develop a rich research community, accessible to every member of our network.

## PIMS Member Universities & Affiliates\*

Simon Fraser University	University of Victoria
University of Alberta	University of Washington
University of British Columbia	.....
University of Calgary	*Portland State University
University of Lethbridge	*University of Northern
University of Manitoba	British Columbia
University of Regina	*Athabasca University
University of Saskatchewan	

## FUNDING OPPORTUNITIES FOR PIMS EVENTS

PIMS supports the mathematical sciences community by [funding events and collaborations](#) in active areas of mathematical science research across the network.

[www.pims.math.ca/scientific/funding-opportunities](http://www.pims.math.ca/scientific/funding-opportunities)

These can be in the form of:

- Conferences, Workshops and Summer Schools
- Distinguished Visitors
- Innovation Activities (involving industry and other non-academy partners)
- [Collaborative Research Groups](#) (CRG)
  - » A CRG typically consists of researchers with overlapping research interests and with a common desire to collaboratively develop some aspects of their research programs. Leveraging the organizational and administrative capacities at PIMS, a CRG will organize joint seminars and workshops, make joint PDF appointments, and perhaps develop joint graduate training programs. Each CRG is selected on a competitive basis by the PIMS Scientific Review Panel (SRP) and typically involves a three year investment of \$200,000. [www.pims.math.ca/scientific/collaborative-research-groups](http://www.pims.math.ca/scientific/collaborative-research-groups)
- Activities with Small Budgets
  - » Proposals to fund short term visitors, hot topic reaction events, and other small budget activities can be submitted for consideration directly online via the

PIMS page, for immediate consideration. Proposals are evaluated within a month of submission, and are typically funded in the \$2000-\$3000 range.

- Seminar Series
- Education and outreach activities

## PIMS POSTDOCTORAL SCHOLARS AWARD

Each fall, the Pacific Institute for the Mathematical Sciences (PIMS) invites nominations of outstanding young researchers in the mathematical sciences for [postdoctoral fellows](#) for the following year. Candidates must be nominated by one or more scientists or by a department (or departments) affiliated with PIMS. The PIMS award for this highly selective competition is at least \$30,000. The deadline for nominations is December 1 of every year. [www.pims.math.ca/scientific/postdoctoral](http://www.pims.math.ca/scientific/postdoctoral)

## INDUSTRIAL EVENTS

### PIMS MATH^INDUSTRY WORKSHOP

PIMS and our partners have offered the [Math^Industry](#) (read as Math to power Industry) workshop every August for the past two years. This workshop trains young mathematical scientists for jobs in important industry sectors in Canada. The program begins with a training bootcamp (software best practices, business and communications, project management) and includes group collaborations with industry partners. [www.m2pi.ca](http://www.m2pi.ca)

## SPECIAL PARTNERSHIPS

### PIMS–CNRS PARTNERSHIP

PIMS is an international research lab of the Centre national de la recherche scientifique (CNRS IRL #3069), since 2007. We have been facilitating and encouraging research collaborations between mathematical scientists at PIMS member universities and researchers across France.

Available programs:

- PIMS–Europe Fellowships for Faculty: Faculty at PIMS member universities are eligible for long term visits to France
- [PIMS CNRS Student Mobility Program](http://www.pims.math.ca/scientific/pims-cnrs-irl) for undergraduates, graduates and postdoctoral scholars. This program supports visits by students from PIMS member universities to carry out research in France or any of the countries participating in the Mitacs Globalink program.  
[www.pims.math.ca/scientific/pims-cnrs-irl](http://www.pims.math.ca/scientific/pims-cnrs-irl)

### PIMS–MITACS PARTNERSHIP

The PIMS Mitacs collaboration is one that has been in place since 1999.

- PIMS–Mitacs Accelerate and/or Business Strategy Internships. Funding starts at \$15,000 CAD for a four-month engagement, with no upper limits. Connect with PIMS if you have any questions.
- [PIMS–Mitacs Student Mobility Program](http://www.pims.math.ca/news/pims-announces-pims-globalink-student-mobility-program): By leveraging the Mitacs Globalink program, PIMS is able to support visits by students from Mitacs partner countries to carry out research at PIMS member universities and vice versa. This award provides \$6000 CAD for senior undergraduate and graduate students from these countries to conduct 12–24 week research projects at PIMS member universities.  
[www.pims.math.ca/news/pims-announces-pims-globalink-student-mobility-program](http://www.pims.math.ca/news/pims-announces-pims-globalink-student-mobility-program)

## COMPUTATIONAL PLATFORMS

- [Syzygy.ca](http://www.syzygy.ca) is a free-access project of PIMS, Compute Canada and Cybera that brings Jupyter notebooks to researchers, educators and innovators across Canada. [www.syzygy.ca](http://www.syzygy.ca)
- [Callysto](http://www.callysto.ca) is a free, online learning tool that helps Grades

5–12 students and teachers in Canada learn and apply in-demand data science skills including data analysis, visualization, coding, and computational thinking.

[www.callysto.ca](http://www.callysto.ca)

## EDUCATION AND OUTREACH

An integral part of the PIMS mandate is to enrich public awareness of mathematics through [outreach and to enhance mathematical training for teachers and students in K–12](#). PIMS is also a strong advocate for Indigenous students.

[www.pims.math.ca/education](http://www.pims.math.ca/education)

PIMS supports various activities including:

- Facilitating access to information about math education matters to parents, teachers and university faculty. (Newsletters, workshops, conferences, special publications, etc.)
- Coordinating or funding workshops to facilitate communication between parents, teachers, mathematicians and math educators.
- Publishing Pi in the Sky, a math magazine for high school students, to promote mathematics, increase the involvement of high school students in mathematical activities, and promote careers in mathematical sciences.
- Holding the Elementary Math Contest (ELMACON) for grades 5–7 students.
- Organizing a series of mathematical events in schools (summer camps for Indigenous students, Math Fairs in Alberta and Math Mania in BC).
- Hosting the annual Changing the Culture conferences for school teachers.
- Organizing the online Diversity in Mathematics joint summer school for high school and undergraduate students.

## SPECIAL EVENTS

PIMS has assembled the major mathematics research centres around the Pacific Rim in a single network: [the Pacific Rim Mathematical Association \(PRIMA\)](#). PIMS will host the 2022 PRIMA Congress in Vancouver, Canada, from December 4–9, 2022.

**Mark your calendars!**

[www.prima2022.primamath.org](http://www.prima2022.primamath.org)

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