THE INTEGRATED PROGRAM IN NEUROSCIENCE AT MCGILL UNIVERSITY
McGill University

- Ranked 26th in Life Sciences & Medicine on the QS World University Ranking for 2023
- #1 medical-doctoral university in Canada according to Macleans.
- 42% of the student population is comprised of international students
- 62% of IPN students are pursuing their PhD.

Neuroscience at McGill

- Home of Wilder Penfield, Donald Hebb, Brenda Milner and other world-renowned neuroscientists
- >10 McGill institutes dedicated to research in neuroscience

Founded in 1821
Montreal is a vibrant city and university hub

- Montreal is one of the principal metropolises in Canada, alongside Vancouver and Toronto.
- A unique mix of modernism and history, founded by the Frenchman Maisonneuve in 1642.
- A vibrant and diverse culture – The #2 largest French speaking city on Earth.
- A great university city with 4 major universities.
  - Many festivals, museums, renown gastronomy, and special events all-year round
WHO WE ARE...

• **The Integrated Program in Neuroscience (IPN) at McGill University** is the largest graduate neuroscience program in North America, with nearly 600 actively enrolled masters and doctoral students.

• **Interdepartmental program** that includes over 230 Professors across McGill’s many campuses, including The Neuro, Douglas Hospital, IRCM, Montreal General.

• **Neuroscience at McGill** has been recognized for its excellence by the Canadian government with its awarding of the $84M “Healthy Brains for Healthy Lives” Canada First Research Excellence Fund.

• **McGill** is one of the world’s most important human brain imaging centres. The MNI standard brain is among the most widely used brain atlases for all MRI work.

• **Historical Landmark Events in Neuroscience at McGill**:
  - Discovery of inhibitory neurotransmission (Florey, Krnjevic)
  - The Montreal Procedure (Wilder Penfield)
  - Donald Hebb’s “Organization of Behavior”
  - Brenda Milner (“the founder of neuropsychology”, hemispheric specialization)
  - CNS myelin inhibition of neuronal growth (David & Aguayo)
  - McGill Pain Index (Melzack)
Neuroscience is broad. So are we.
The IPN is a research-focused degree program

Students receive most of their training in the laboratory doing research:

We have two required core courses for all students:

- Principles of Neuroscience 1 – Cellular & Molecular Neuroscience
- Principles of Neuroscience 2 – Systems & Cognitive Neuroscience

Students also must take a two day workshop on Research Ethics called “Responsible Conduct in Research”

MSc students must take at least one more graduate level neuroscience course

PhD students must take at least two more graduate level neuroscience courses

Examples of the >35 approved graduate level courses include:

- Statistics for Neuroscience
- Neuroimaging Data Science
- History of Neuroscience
- Current Topics in Neuroscience
- Computational Neuroscience
- Developmental Neurobiology
- Lab-to-World Entrepreneurship
Stipend support guaranteed to all students

As an IPN student you are guaranteed to receive a stipend to cover at least full tuition/fees and health insurance plus a cost-of-living allowance linked to the Montreal consumer price index.

<table>
<thead>
<tr>
<th>MSc Students</th>
<th>QC Y1</th>
<th>QC Y2</th>
<th>QC Y3</th>
<th>Out-of-province Y1</th>
<th>Out-of-province Y2</th>
<th>Out-of-province Y3</th>
<th>International Y1</th>
<th>International Y2</th>
<th>International Y3</th>
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<tbody>
<tr>
<td>Living Allowance</td>
<td>$21,183</td>
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<tr>
<td>EST tuition/fees/insurance</td>
<td>$5,191</td>
<td>$5,368</td>
<td>$4,399</td>
<td>$11,361</td>
<td>$8,453</td>
<td>$4,399</td>
<td>$22,851</td>
<td>$14,541</td>
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<td>TOTAL:</td>
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<td>$26,550</td>
<td>$25,582</td>
<td>$32,544</td>
<td>$29,635</td>
<td>$25,582</td>
<td>$44,034</td>
<td>$35,724</td>
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<tr>
<th>PhD Students</th>
<th>Canadian PHD1-PHD4 PHD5-PHD7</th>
<th>International PHD1-PHD4 PHD5-PHD7</th>
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Top applicants are also eligible for recruitment awards of up to $10,000 !!!

Living allowance is based on a 7.2% CPI increase in Montreal from Aug 2021-2022*
Tuition/Fees/Insurance are estimated based on an anticipated 4% increase over 2022-23 rates
Opportunities for awards and fellowships

- Numerous awards and funding opportunities for International and Canadian students, at both the M.Sc. and Ph.D. levels
- Many internship opportunities as well
- Awards:
  - 220+ competitive studentships awarded to IPN students
  - 91 federal and provincial awards
Leadership & Innovation

- **Graduate Students’ Association for Neuroscience (GSAN):**
  Student society that brings all IPN students together via regular academic and social events

- **BrainReach:**
  Non-profit community outreach group, managed by IPN students, with the mission of teaching basic neuroscience to indigenous and underserved students across Quebec

- **NeuroLingo**
  Train with speaking coaches to give Ted-X style talks about your neuroscience research to the Montreal community and beyond.

- **InfoCerveau**
  Ask me anything service for the community. Answering questions about the brain and neurological disease.
Annual scientific symposia and events

• **The IPN Retreat**  
  Annual 2-day gathering of all IPN students and faculty to give talks, present posters, hear big name invited lectures, participate in career workshops and party.

• **The Bernice Grafstein Lecture in Neuroscience.**  
  Star scientists from around the world invited to spend the day speaking and networking with the IPN community. Past speakers include:
  
  Dr. Josh Gordon, NIMH Director  
  Dr. Marc Tessier-Lavigne, Stanford President  
  Dr. Lawrence Wald, Harvard MRI researcher  
  Dr. Huda Zoghbi, Gardner & Brain Prize winner  
  Dr. Adele Diamond, cognitive neuroscientist  
  Dr. Andrew Huberman, Hubermanlab podcast  

And dozens more invited lectures taking place across campus every month for you to attend.
How to apply to the IPN?

1. Make sure your file on Slate is as complete as possible (personal statement, CV, letters of reference, unofficial transcripts, English competency, etc.) by the deadline. Note that we don’t need official transcripts until much later, but we do at least need an unofficial transcript from all the universities you attended.

2. You should then identify supervisors you would like to work with. Our IPN supervisor database is a helpful resource for finding a lab. (https://www.mcgill.ca/ipn/prospective/finding-supervisor)

3. Upon coming to an agreement with a potential supervisor to join their lab, the supervisor will fill out an IPN Letter of Agreement, specifying the project, expectations for training and research, work hours and stipend. Read through it and reply by email if you accept.

4. Once you accept you will be recommended for admission and will start receiving official info.

We will continue accepting applications from Canadian applicants for a few more days.

Deadline to find a supervisor is July 12, 2023
McGill University
Integrated Program in Neuroscience

Ready to support you.

Director: Dr. Ed Ruthazer
Assoc Dir: Dr. Patricia Silveira

Full-Time Staff:
• Katherine Vanka, Student Affairs Administrator
• Mirko Sablich, Admissions Coordinator
• Melissa Zhu, Student Affairs Coordinator
• Adriana Sgambetterra, Projects Administrator
• Mengting Hu, China Program Administrator
Learn More & Connect
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