A message from Dr. Alice Aiken, 
Vice President Research and Innovation

A world of impact

This year, Dalhousie firmly planted its flag as one of the world’s leading ocean universities. Building on a long history of excellence in ocean research, we announced the historic $400 million Transforming Climate Action research program that will make Canada a global leader in climate science, innovation, and solutions by putting the ocean front and centre in the fight against climate change.

Moreover, our Ocean Tracking Network was awarded $38.5 million from the Canada Foundation for Innovation to continue its valuable research monitoring the ocean’s changing environments. Additionally, we received a $15 million grant to study ocean carbon removal as a promising method to help humanity avoid the worst impacts of climate change.

The world is turning to Dalhousie for solutions. Our impact as a global leader is reflected in the Times Higher Education Impact Rankings 2023 which assess universities’ progress towards the UN Sustainable Development Goals (SDG). Dal ranked eighth in the world and first in Canada for SDG 14 – Life Below Water. The depth of our ocean expertise was also reflected in the Academic Ranking of World Universities where again we placed first in Canada and 32nd globally for oceanography.

While ocean research was a standout, we continue to make significant progress across all areas of our research enterprise, administering more than $210 million in research funding to support our efforts. The productivity of our researchers expands every year, with a 16.5% increase in publications over the period 2020–2022.

From ground-breaking clean tech and battery research that propels us toward a greener future, to progressive healthcare scholarship that bolsters our well-being, to agricultural research that safeguards our food supply, and to community-based initiatives that empower external partners to direct, engage in, and reap the benefits of research, we continue to make great strides.

To ensure our research resonates in the world around us, we are strengthening our innovation and entrepreneurship training through Dal Innovates. Offering a pipeline of programs that guide researchers from initial ideas to market-ready enterprises, we are attracting more participants, building more Dal-based ventures, and fostering a growing ecosystem of mentors dedicated to advancing the innovations of the university. Our goal is to provide our researchers and students with the skills, experience, mindset, and resilience to thrive in an innovation economy. This work was recognized last fall with the Deshpande Symposium Award for Technology Commercialization, a global award of excellence for delivering programs that empower researchers with entrepreneurship.

Each year, we aim to deepen our impact in the world. And in FY2022-23 we made a world of impact.

Yours sincerely,

Dr. Alice B. Aiken, PhD
Professor and Vice-President Research and Innovation
Maximizing impact

We all want to leave the world a better place than where we found it – at Dal we have a strategy for that. By focusing our research efforts on Signature Research Clusters that reinforce our strengths and by aligning our impact with the United Nations’ Sustainable Development Goals (SDG) we are creating meaningful contributions to the region, nation and world.

Demonstrating our commitment

Explore how Dalhousie is addressing each of the SDGs on our Global Goals website.
Where we rank

Global higher education rankings are one lens through which research strengths can be viewed.

Sustainability rankings

| Times Higher Education Impact Rankings 2023 based on UN Sustainable Development Goals |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 8 globally 1 in Canada          | 17 globally 3 in Canada | 19 globally 2 in Canada | 31 globally 7 in Canada | 36 globally 7 in Canada | 48 globally 6 in Canada |
| 100                             | 14 globally 6 in Canada  | 12 globally 12 in Canada | 2 globally 1 in Canada | 15 globally 13 in Canada | 8 globally 14 in Canada  |

QS: Sustainability Rankings 2023

- **Overall**
  - 66 globally
    - 7 in Canada (for Environmental Impact)
  - 182 globally
    - 11 in Canada (for Social Impact)

Academic rankings

- **Overall**
  - 301–350 Worldwide
    - 14 in Canada (tied)
    - Times Higher Education World University Rankings (2023)

- **Worldwide**
  - 298th
    - 12 in Canada
    - Times Higher Education World University Rankings (2023)

- **Worldwide**
  - 301–400
    - 13-17 in Canada
    - Shanghai Ranking Academic Ranking of World Universities (2022)

- **7th in Canada**
  - Maclean’s Ranking of Canadian Medical Doctoral Universities (2023)

By subject

**Top 100**
- Law
  - Times Higher Education World University Rankings (2023)

**Top 100**
- Geology
  - Times Higher Education World University Rankings (2023)

**Top 100**
- Oceanography (best in Canada)
  - Shanghai Ranking Academic Ranking of World Universities (2022)

Measuring success

Metrics provide a snapshot of what we have accomplished. They help us track our progress, where we are thriving and where we have room to grow.

<table>
<thead>
<tr>
<th>Impact Factor</th>
<th>KPIs</th>
<th>Target</th>
<th>Baseline</th>
<th>Most Recent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Productivity</td>
<td>Publications (Scopus indexed)</td>
<td>8.5% increase by 2023</td>
<td>2016-18: 8,779</td>
<td>2020–2022: 11,704</td>
</tr>
<tr>
<td>Citations of publications (Scopus indexed)</td>
<td>12% increase by 2023</td>
<td>2016-18: 57,564</td>
<td>2020–2022: 112,744</td>
<td></td>
</tr>
<tr>
<td>Publications per $M research funding</td>
<td>Exceed the U15 average</td>
<td>2017-2018: 21.9</td>
<td>2020–2021: 21.3 (U15 average 18.1)</td>
<td></td>
</tr>
</tbody>
</table>

- **Impact on SDGs**
  - Percentage of research funding applications that identify 1+ SDGs as keyword
    - Year over year increase
      - FY 2019/20: 39.5%
      - FY 2022/23: 84%
  - Percentage of Dalhousie publications that are linked to 1+ SDGs (Scopus-indexed)
    - Year over year increase
      - 2018: 33.3%
      - 2021: 40.4%

- **Research Funding**
  - Research funds administered (Dal with IWK & NS Health)
    - FY 2017/18: $156.6 million
    - FY 2022/23: $210.7 million

- **International Collaboration**
  - Percentage of research funding applications that are international in scope
    - Year over year increase
      - FY 2017/18: 12%
      - FY 2022/23: 28%
  - Percentage of publications that have international co-authors (Scopus-indexed)
    - Exceed the U15 average
      - 2016-18: 47.5%
      - 2020–2022: 50.4% (U15 average 55.5%)

- **PhD Students**
  - Number of PhD students enrolled
    - Dec 2018: 663
    - Dec 2022: 857
  - Additional 165 PhD students enrolled per yr
Dalhousie is Transforming Climate Action

A new era of ocean and climate research began at Dalhousie with the announcement of the seven-year Transforming Climate Action research program. The program aims to make Canada a global leader in climate science, innovation, and solutions by taking an ocean-first approach to the fight against climate change.

Made possible by a historic $154 million investment from the Government of Canada through the Canada First Research Excellence Fund, the research grant is the largest ever received by the university. The funding will contribute to a $400 million research program that will see Dalhousie lead a partnership with Université du Québec à Rimouski, Université Laval, and Memorial University comprising more than 170 scholars.

"What we need to do is reduce uncertainty about how the ocean is functioning so that we can rise to meet the challenges we face."

Dr. Anya Waite
Scientific director Transforming Climate Action, associate vice-president research (Ocean) and chief executive officer of the Dalhousie-led Ocean Frontier Institute

The unknown ocean

The ocean absorbs up to four times more CO₂ from the atmosphere than terrestrial forests. But emerging science shows its ability to absorb CO₂ and regulate temperatures is changing in ways we don’t understand. Dalhousie and its partners will fill the knowledge gap.

Transforming Climate Action by the numbers

- $400M research program
- $154M grant from the Government of Canada
- $116M from academic partner institutions Dal, UQAR, Laval, Memorial
- $127M from private and public sector collaborators
- 170+ researchers
- 40+ national and international partners

Global partnership

Strategic alliances with world-leading centres for ocean and atmospheric science, including:

- U.S. National Oceanic and Atmospheric Administration (NOAA)
- National Aeronautics and Space Administration (NASA)
- Woods Hole Oceanographic Institution
- GEOMAR - Helmholtz Centre for Ocean Research Kiel
Fuelling our research

Investments by our federal and provincial governments, industry and not-for-profit partners, and other sources keep our faculty at the forefront of their research fields. We are better able to attract and retain the very best researchers and train the next generation.

Research funding administered: FY2022-2023

Federal government $117,497,794
Other $1,384,427
Not for profit $22,712,171
Universities/colleges $19,783,598
Institutes/centres/networks $10,792,771
Industry $23,779,196
Foreign government $1,361,468
Provincial government $13,430,097

Total Research Funding: $210,741,522

Applications awarded funding supporting UN Sustainable Development Goals FY2022-2023

24 grants over $1M awarded in FY2022-2023

Individual applications may support more than one SDG
Serving our researchers

The Office of Research Services helps our faculty seek financial support for their research, undertake collaborative research with industry, government, and international organizations, and ensures excellence in research practices.

ORS by the numbers: FY2022-2023

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications submitted</td>
<td>1,723</td>
</tr>
<tr>
<td>New accounts approved to be open</td>
<td>1,036</td>
</tr>
<tr>
<td>Active research files as of March 31, 2023</td>
<td>3,718</td>
</tr>
<tr>
<td>New projects submitted for research ethics review</td>
<td>526</td>
</tr>
</tbody>
</table>

Funding applications submitted: FY2022-2023

- Institutes/Centres NETWORKS: 185
- Industry: 191
- Foreign Government: 24
- Provincial Government: 92
- Federal Government: 563
- University/Colleges: 415
- Not for Profit: 234
- Other: 19

Total Applications: 1,723

Major research funding

<table>
<thead>
<tr>
<th>Initiative/Project</th>
<th>PI/Faculty</th>
<th>Funding Agency</th>
<th>Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transforming Climate Action</td>
<td>Dr. Anya Waite, Faculty of Science</td>
<td>Canada First Research Excellence Fund, academic partners, private and public sector collaborators, including Research Nova Scotia and Fonds de Recherche du Québec</td>
<td>$154.4M CFREF $115M academic partner institutions $127M private &amp; public sector collaborators</td>
</tr>
<tr>
<td>Ocean Tracking Network</td>
<td>Dr. Sara Iverson, Faculty of Science</td>
<td>Canada Foundation for Innovation Major Science Initiatives, Research Nova Scotia, partnering organizations</td>
<td>$38.5M CFI $1.2M RNS $28M private and public sector partners</td>
</tr>
<tr>
<td>Ocean Alk-align: Aligning ocean alkalinity enhancement for sustainable, safe and verifiable long-term CO2 removal</td>
<td>Dr. Katja Fennel, Faculty of Science</td>
<td>Carbon-to-Sea Initiative</td>
<td>$15M</td>
</tr>
<tr>
<td>Partnership for Innovation in Climate Change Adaptation in Water and Wastewater Treatment</td>
<td>Dr. Graham Gagnon, Faculty of Engineering</td>
<td>Natural Sciences and Engineering Research Council &amp; partnering organizations</td>
<td>$9.26M</td>
</tr>
<tr>
<td>Canadian Immunization Research Network</td>
<td>Dr. Scott Halperin, Faculty of Medicine</td>
<td>Canadian Institutes of Health Research</td>
<td>$6M</td>
</tr>
<tr>
<td>Exposome profiling as an emerging tool for lung cancer early detection and prevention</td>
<td>Dr. Robin Urquhart, Faculty of Medicine</td>
<td>Canadian Cancer Society</td>
<td>$5.2M</td>
</tr>
<tr>
<td>Climate Action Evaluation: Development of a Bottom-up, Activity-based Transport Network and Emissions Modelling System</td>
<td>Dr. Ahsan Habib, Faculty of Architecture &amp; Planning</td>
<td>Environment and Climate Change Canada: Climate Action and Awareness Fund</td>
<td>$3.6M</td>
</tr>
</tbody>
</table>

Institutes/Centres/Networks 185
Industry 191
Foreign Government 24
Provincial Government 92
Federal Government 563
University/Colleges 415
Not for Profit 234
Other 19
Funding at work

Innovation under the sea

The Ocean Tracking Network (OTN), led by scientific director Dr. Sara Iverson, was awarded a grant of $38.5 million from the Canada Foundation for Innovation’s Major Science Initiatives Fund. Collaborators around the world use OTN’s global infrastructure and analytical tools to document the movements of more than 300 keystone and commercially and culturally valuable aquatic species in the context of changing ocean and freshwater environments.

Investing in climate change mitigation

Dalhousie received nearly $15 million from the United States-based Carbon to Sea Initiative to lead a global five-year program headed by Dr. Katja Fennel that will study ocean alkalinity enhancement – an approach for atmospheric carbon removal that aims to mitigate climate change.

Quantifying Canada’s emissions

In our civic transport

A Dalhousie research project to improve understanding of the greenhouse gas emissions of municipalities received $3.6 million through Canada’s Climate Action and Awareness Fund. Led by Dr. Ahsan Habib, the project team will develop a framework for data collection and mathematical modeling to determine how much is emitted daily within the transportation sector.

“"There is a need, particularly from the data and modeling side, for helping municipalities quantify GHG so they can benchmark to achieve net-zero.”

Dr. Ahsan Habib
School of Planning and Department of Civil and Resource Engineering
Founder of Dalhousie Transportation Collaboratory

In our food systems

Canada’s food system contributes up to 40 percent of Canada’s human-caused greenhouse gas emissions. Dr. Gordon Price from the Faculty of Agriculture will lead $1.4 million research project supported by an NSERC Alliance grant to quantify food system greenhouse gas emissions from cradle to grave and develop effective mitigation strategies at a community level.

Advancing Indigenous ways of knowing

Dr. Sherry Pictou is helping to lead a $24 million New Frontiers in Research Fund project supported by the Government of Canada. Titled Ārramăt, the research program will include 150 Indigenous organizations, universities, and other partners, and 70 ecosystems around the world that are spiritually, culturally, and economically important to Indigenous Peoples. The project aims to leverage Indigenous ways of knowing to address issues such as food security, human-wildlife management, and the decolonization of science.

“We need to ask two questions. What are Indigenous perspectives on the stewardship and management of natural resources — our relationship with Mother Earth? And, even more so, what are the perspectives of Indigenous women and gender diverse persons and how can they be considered in decision making processes that ultimately impact them?”

Dr. Sherry Pictou
Canada Research Chair in Indigenous Governance
Schulich School of Law and School of Public Administration
A new foundation for community-based research
Dr. Melanie Zurba is co-leading a project in partnership with the Unama’ki Institute of Natural Resources (UINR) in Cape Breton focused on creating knowledge and tools for Mi’kmaq and other Indigenous communities to improve the influence of Indigenous leadership in the management of natural resources. The project is funded by close to $500K from SSHRC’s Race, Gender and Diversity Initiative.

“Historically, the academic would come up with their own questions and then bring in a community partner. This is a different approach. The community is involved right from the start in scoping what it’s all about.”

Dr. Melanie Zurba
School for Resource and Environmental Studies

Improving outcomes for substance users
Dr. Sherry Stewart will lead a new Atlantic Canadian research “node” dedicated to guiding substance use health policies and practices funded by the Canadian Institutes of Health Research. The Atlantic node will receive $2.4 million as part of the Canadian Research Initiative in Substance Misuse.

“We look forward to working collaboratively with addictions researchers, service providers, persons with lived and living experience of substance use, Indigenous communities, and policy-makers, to conduct clinically relevant research that will ultimately improve the services available in the Atlantic Region.”

Dr. Sherry Stewart
Canada Research Chair in Addiction and Mental Health
Department of Psychiatry and Department of Psychology and Neuroscience

Strengthening Canada’s vaccine readiness
The Canadian Immunization Research Network (CIRN), led by Dalhousie vaccinologist Dr. Scott Halperin received $6 million in new funding from the Canadian Institutes of Health Research. Bringing together more than 150 investigators from 58 institutions across Canada, CIRN undertakes clinical research, surveillance and epidemiological research, and public health program evaluation to help ensure the safety and wellbeing of Canadians.

Exploring the causes of lung cancer
Due to our exposure to cancer-causing substances such as arsenic, radon gas and air pollution, lung cancer can occur in people who have never smoked. With $5 million in funding from the Canadian Cancer Society, a research team led by Dalhousie’s Dr. Robin Urquhart of the Department of Community Health and Epidemiology is working to ensure environmental factors are considered when assessing a person’s risk of lung cancer.
Impactful outreach

Breaking down walls
Dalhousie sent two doctoral chemistry students to share their world-improving ideas at the Falling Walls Lab pitch competition in Berlin, Germany. On stage in front of hundreds, including Nobel Prize-winners and thought leaders from around the globe, the researchers shared their innovations for creating hydrogen fuel on demand and a 50-year lithium-ion battery. To get to the finals, the pair won the regional Falling Walls Lab Atlantic Canada pitch competition. Now an annual event, the competition sponsored by Dalhousie provides a platform for the most exciting ideas to better human existence to come forward from across the region each year.

Lifting ambitions
Dalhousie received an international award for its work facilitating the transformation of student and researcher innovations into commercially viable products and services. Dal Innovates received the Deshpande Symposium Award for Technology Commercialization, along with fellow recipient the Indian Institute of Technology-Madras. The award recognizes leading universities globally for excellence in delivering programs that empower students and researchers to turn their research-based innovations into market-ready enterprises.

“There are very few opportunities for someone at my career stage to have a literal global stage to share their research. It’s an amazing reminder of what it’s all for. Suddenly it all makes sense.”

Tina Taskovic
PhD candidate, Department of Chemistry

“It was a tremendous validation of the programs we’ve partnered to build at Dalhousie over the past several years to help students and researchers gain the skills and mindset to turn their ideas into innovations, and innovations into startups.”

Jeff Larsen
Assistant Vice President, Innovation and Entrepreneurship

PhD student Sarah Martell delivers her pitch in Berlin.

Spencer Giffin, director, Office of Innovation and Entrepreneurship, accepts the Deshpande Symposium Award on behalf of Dalhousie.
Commercialization, innovation, and entrepreneurship

Dalhousie’s pipeline of programs and support is building our community’s entrepreneurial mindset and capacity for venture creation. The result has been more market-ready innovations, increasingly entrepreneurial ambitions of students and faculty, and an ever-expanding network of mentors and partners working with our community.

Our ecosystem

Focused on empowering the Dalhousie community and beyond to build and contribute to successful ventures, our programs equip undergrads, graduate students, postdocs, and faculty for every step along the venture creation journey. From establishing a market need, to building a prototype, to sourcing investment, our ecosystem is there to support.

A push to pivot

When Dr. Ravi Kempaiah brought his startup Zen Electric Bikes to Lab2Market Launch he intended to leverage its entrepreneurship training to revolutionize the e-bike market. But during the 12-week program focused on business model validation the e-bike evangelist had a revelation. While his bikes are state-of-art – the result of extensive design prototyping during a residency at the Emera ideaHUB – Kempaiah realized Zen’s battery science is what truly sets the company apart. So, he pivoted and is now on track to building a battery company set to supply a burgeoning global market worth billions.

“Our mentors said, ‘Ravi, look at the forest, not just a single tree. Look at the real essential – the battery that goes into every two-wheeled electric vehicle on the planet’”

Dr. Ravi Kempaiah
CEO, Zen Energy
Dalhousie Postdoctoral Research Fellow

Programs by the numbers

<table>
<thead>
<tr>
<th>Program</th>
<th>2020-2022</th>
<th>2020-2022</th>
<th>Since 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab2Market Validate</td>
<td>66 RESEARCHERS SUPPORTED</td>
<td>114 NEW EMPLOYEES</td>
<td>162 NEW EMPLOYEES</td>
</tr>
<tr>
<td>Lab2Market Launch</td>
<td>13 START-UPS FORMED</td>
<td>28 START-UPS SUPPORTED</td>
<td>78 START-UPS SUPPORTED</td>
</tr>
<tr>
<td>Emera ideaHUB</td>
<td>$2.4M FUNDING SECURED</td>
<td>$4.8M FUNDING SECURED</td>
<td>$34M FUNDING SECURED</td>
</tr>
</tbody>
</table>
An engine for growth

Creative Destruction Lab – Atlantic delivers an objective-based program for massively scalable, seed-stage, science- and technology-based companies. Ticking over $1 billion in equity value creation this year since the time the program was established, Atlantic Canadian companies represent 60 per cent of the ventures supported. International reach has also expanded, with ventures from 14 countries represented.

Changing the tide of wastewater testing

A new grant of more than $9 million from NSERC and partnering organizations is enabling Dal researchers focused on water testing and treatment to work with public and private sector organizations to understand the coming impacts of climate change. Led by Dr. Graham Gagnon, the team is studying how rising temperatures affect our water systems, from the water we drink to the water we pump into the world.

“..."When an organization designs a treatment plant, they typically design for a 25- to 50-year lifecycle. You have to ask, ‘If the temperature changes by one and a half degrees, does that mean I’m treating something different? Do I have to put other provisions in my treatment plant as a consequence?’”

Dr. Graham Gagnon
Director, Centre for Water Resource Studies
Department of Civil and Resource Engineering

Cultivating the entrepreneurial mindset

MindFrame Connect, based at Dalhousie, is a national program focused on upskilling mentors, mentees, and entrepreneurs from Canada and beyond by providing access to expert training, resources, and tools designed to improve performance. Program highlights for FY2022-23 include the development of an Advanced Mentorship micro-credential at Dalhousie, and the addition of an EDIA program stream.

Building bonds with industry

Dalhousie’s Office of Commercialization and Industry Engagement (OCIE) is the university’s gateway for collaboration between industry and Dalhousie’s talented research teams. With a mandate to support the university’s researchers and economic development in the region and beyond, OCIE provides strategic access to the university’s intellectual property and expertise for the creation of startups and to support the R&D needs of organizations. A commercialization and industry engagement leader in Atlantic Canada, OCIE is a key driver in mobilizing innovation and strengthening economic development.

PhD student Emalie Hayes helped develop wastewater testing solutions for COVID-19
Centres and institutes
Dalhousie’s network of institutes and centres bring thought leaders together to maximize their impact in key areas of study.

Next Wave Funding
The OVPRI’s Next Wave Fund provides support for centres and institutes to accelerate research and innovation initiatives. The 2022 recipients are:
- Beatrice Hunter Cancer Research Institute and the Institute for Comparative Genomics
- Brain Repair Centre
- Black Studies Research Institute
- Centre for Transformative Nursing and Health Research
- Centre for Water Resources Studies
- The Dallaire Institute for Children, Peace and Security
- Healthy Populations Institute
- Law and Technology Institute
- Marine and Environmental Law Institute

Dallaire Institute’s quest for peace through children
Dallaire Institute for Children, Peace and Security received nearly $2.7 million from the German Federal Foreign Office to support work preventing the recruitment and use of children in armed violence. The Placing Children at the Heart of Peace and Security in Africa project will accelerate the implementation of the Vancouver Principles on Peacekeeping and the Prevention of the Recruitment and Use of Child Soldiers across Africa. It also aims to increase the capacity of the African security sector to prevent the recruitment and use of children in violence and integrate children’s and community perspectives into security sector operations.

Core facilities
Dalhousie research facilities consist of platforms, technologies, and equipment that play a critical role in supporting scientific inquiry across the university.

$100+ million in equipment & facilities

The Aquatron saves a species
A team of researchers is using the Aquatron facilities to conserve the Atlantic whitefish, a species that dates back 14 million years, exists only in a rural Nova Scotia watershed and is on the brink of extinction. Canada’s largest university aquatic research facility, the Aquatron provided the environment necessary to produce 2,200 juvenile whitefish that were released into a watershed near Bridgewater, N.S.
Recognizing excellence

Our Canada Research Chairs

Canada Research Chairs (CRCs) empower Canadian universities to achieve the highest levels of research excellence and are a cornerstone of Canada’s strategy to become a global research leader.

Tier 1 CRCs announced between January 1, 2022 and April 30, 2023

Appointed for seven-year terms supported with annual $200,000 grants to the university.

Dr. Gregory Fairn
Title: Tier 1 Canada Research Chair in Multiomics of Lipids and Innate Immunity
Type: New
Faculty: Medicine

Dr. Kate Swanson
Title: Tier 1 Canada Research Chair in International Peace, Security and Children
Type: New
Faculty: Arts and Social Sciences

Tier 2 CRCs announced between January 1, 2022 and April 30, 2023

Appointed for five-year terms supported with annual $100,000 grants to the university, and an additional $20,000 per year for those in their first term.

Dr. Channakeshava Umeshappa
Title: Tier 2 Canada Research Chair in Human Immunology and Inflammation
Type: New
Faculty: Medicine

Dr. Stefanie Colombo
Title: Tier 2 Canada Research Chair in Aquaculture Nutrition
Type: Renewed
Faculty: Agriculture

Dr. Javeria Hashmi
Title: Tier Canada Research Chair in Pain Research
Type: Renewed
Faculty: Medicine

Dr. Lam Ho
Title: Tier 2 Canada Research Chair in Stochastic Modelling
Type: Renewed
Faculty: Science
The Killam Trusts

Dalhousie is one of just five universities in Canada to receive support from the Killam Trusts for scholarships, fellowships, prizes, and other funding. Since 1967, the trusts have provided more than $1 billion in support. No other private philanthropic effort has contributed this level of funding to higher education in Canada.

The Killam Prize

Drs. Françoise Baylis and Jeff Dahn were each honoured with the $100,000 Killam Prize, winning two of the five prestigious awards granted annually by the Killam Trusts. Dr. Baylis is a world leading bioethicist guiding the discussion on how to proceed with human genome editing for reproduction. Dr. Jeff Dahn is a major force in battery science, who created much of the technology that has enabled lithium-ion batteries to become a preferred power source.

The Killam Memorial Chairs

The Killam Memorial Chairs are awarded to academics of the highest distinction at Dalhousie with appointments of up to five years. The current chairs are:

Established Researchers

- Dr. Afua Cooper, Faculty of Arts and Social Sciences
- Dr. Kevin Plucknett, Faculty of Engineering

Early Career Researchers

- Dr. Mita Dasog, Faculty of Science
- Dr. Jeanna Parsons Leigh, Faculty of Health

Distinguished Research Professors

The title of Distinguished Research Professor is granted to faculty members who have achieved distinction as leading scholars in their fields. In 2022 the title went to:

- Dr. Paul Amyotte, Faculty of Engineering
- Dr. Sara Kirk, Faculty of Health
- Dr. Heike K. Lotze, Faculty of Science

The President’s Research Excellence Awards

Emerging Investigator awards

- Dr. Erin Bertrand, Faculty of Science
- Dr. Francesca Di Cara, Faculty of Medicine
- Dr. Brendan Leung, Faculty of Dentistry
- Dr. Eric Oliver, Faculty of Science
- Dr. Olga Theou, Faculty of Health
- Dr. Tom Lie, Faculty of Arts & Social Sciences

Research Impact awards

- Dr. Daniel Boyd, Faculty of Dentistry
- Dr. Dana Kabat-Farr, Faculty of Management
- Dr. Jeanna Parsons Leigh, Faculty of Health
Supporting our faculty

Dalhousie and the OVPRI have established awards to support our research community and encourage the pursuit of research of strategic importance.

Belong Research Fellowship Awards

The Belong Research Fellowships support tenure-track faculty from equity groups to pursue small research projects of 1-2 years’ duration. The 2021 and 2022 recipients are:

2021
- Dr. Mayra Donaji Barrera Machuca, Faculty of Computer Science
- Dr. Qi Deng, Faculty of Management
- Maria Dugas, Faculty of Law
- Dr. Ana Maria Gonzalez Barrero, Faculty of Health

2022
- Dr. Stacy Allison-Cassin, Faculty of Management
- Dr. Sara Ross, Faculty of Law
- Xiaohong Sun, Faculty of Agriculture
- Cheryl Simon, Faculty of Law
- Dr. Rina Wehbe, Faculty of Computer Science

VP Research and Innovation International Seed Fund

The VP Research and Innovation International Seed Fund supports the development of international research initiatives between Dalhousie researchers and their global partners. The 2021 and 2022 recipients are:

2021
- Dr. Mayra Donaji Barrera Machuca, Faculty of Computer Science
- Dr. John Blake, Faculty of Engineering
- Dr. Zhenyu Cheng, Faculty of Medicine
- Dr. Israat Haque, Faculty of Computer Science
- Dr. Manuel Helbig, Faculty of Science
- Dr. Kevin Hewitt, Faculty of Science
- Dr. Sean Myles, Faculty of Agriculture
- Dr. Kyle John Wilby, Faculty of Health
- Dr. Haorui Wu, Faculty of Health
- Dr. Alexa Yakubovich, Faculty of Medicine

2022
- Dr. Ahmad Al-Mallahi, Faculty of Agriculture
- Dr. Lisa Berglund, Faculty of Architecture & Planning
- Dr. Salvio Digesto, Faculty of Arts & Social Sciences
- Dr. Kelvin Fong, Faculty of Science
- Dr. James Forren, Faculty of Architecture & Planning
- Dr. Jamila Ghaddar, Faculty of Management
- Dr. Joyline Makani, Dalhousie Libraries
- Dr. Zeeshan Sheikh, Faculty of Dentistry
- Dr. Sherry Stewart, Faculty of Science
- Dr. Philip Tibbo, Faculty of Medicine
Prizes and honours

Royal Society of Canada

J. B. Tyrrell Historical Medal

Dr. Afua Cooper won the prestigious Royal Society of Canada’s J. B. Tyrrell Historical Medal for her scholarly work that has raised the profile of the African Canadian experience. She wrote “The Hanging of Angelique, The Untold Story of Canadian Slavery and the Burning of Old Montréal”, which is credited for dispelling misconceptions of Canada’s experience with slavery. A continual best seller since its publication in 2006.

New RSC Fellows

• Dr. John Archibald, Faculty of Medicine
• Dr. Christine Chambers, Faculties of Science and Medicine
• Dr. John Crowley, Faculty of Arts and Social Science

New RSC College Members

• Dr. Karen Foster, Faculty of Arts and Social Science
• Dr. Aaron MacNeil, Faculty of Science

Canadian Academy of Health Sciences

• Dr. Susan Kirkland, Faculty of Health

Steacie Prize

• Dr. Erin Johnson, Faculty of Science

Alfred P. Sloan Research Fellowship

• Dr. Saurabh Chitnis, Faculty of Science

The Canadian Cancer Society William E. Rawls Prize

• Dr. Robin Urquhart, Faculty of Medicine

International Association of Hydrogeologists, Canadian National Chapter Early Career Hydrogeologist Award

• Dr. Barret Kurylyk, Faculty of Engineering

Global Young Academy Member

• Dr. Rita Orji, Faculty of Computer Science

Academy of Operative Dentistry Hollenback Memorial Prize

• Dr. Richard Price, Faculty of Dentistry

Scialog Collaborative Innovation Award

• Dr. Mita Dasog, Faculty of Science

Dr. Afua Cooper
Department of Sociology and Social Anthropology

“For them to recognize the work that I’m doing, which focuses predominantly on Black history, it signals that they recognize the importance of this other history that has been at the margins for so long — recognizing it as an integral thread of Canadian history.”

Prizes and honours by the numbers

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Dalhousie Research Advisory Council

The Dalhousie Research Advisory Committee (DRAC) provides advice to the Vice-President Research and Innovation on issues relating to the research enterprise at Dalhousie University.

Membership (as of March 2023)

- Dr. Alice Aiken, Vice President Research and Innovation (Chair)
- Dr. Jennifer Bain, Associate Vice President Research
- Dr. Jamie Baxter, Associate Dean Research, Faculty of Law
- Dr. Shaun Boe, Associate Dean Research, Faculty of Health
- Dr. Chris Cutler, Associate Dean Research, Faculty of Agriculture
- Dr. Eileen Denovan-Wright, Associate Dean Research, Faculty of Medicine
- Dr. Adam Donaldson, Associate Dean Scholarships and Programs, Faculty of Graduate Studies
- Dr. Mark Filagge, Associate Dean Research, Faculty of Dentistry
- Dr. Karen Foster, Associate Dean Research, Faculty of Arts and Social Sciences
- Stephen Hartlen, Assistant Vice President, Industry Relations
- Laura Hynes-Jenkins, Director, Government Relations
- Dr. Laurent Kreplak, Associate Dean Research, Science
- Jeff Larsen, Assistant Vice President, Innovation and Entrepreneurship
- Dr. Frank MacMaster, Vice President, Research and Innovation, IWK Health Centre
- Dr. Balakrishnan Prithiviraj, Assistant Vice President, Global Relations
- Dr. Theresa Rajack-Talley, Vice-Provost, Equity & Inclusion
- Dr. Marlies Rise, Assistant Vice President, Research Services
- Dr. Mikiko Terashima, Associate Dean of Research, Faculty of Architecture & Planning
- Dr. Gail Tomblin Murphy, VP Research, Innovation & Discovery and Chief Nurse Executive, NSH
- Dr. Peter VanBerkel, Associate Dean Research, Faculty of Engineering
- Michael Vandenburg, Dean of Libraries
- Dr. Anya Waite, Associate Vice President (Ocean) & Scientific Director, Ocean Frontier Institute
- Trevor Weissent, Managing Director, Finance and Operations
- Dr. Dominika Wranik, Associate Dean of Research, Faculty of Management
- Dr. Nur Zincir-Heywood, Associate Dean Research, Faculty of Computer Science

Prizes and honours

Discovery Awards

Science Champion

- Dr. Arunika Gunawardena, Faculty of Science

Emerging Professional

- Dr. Souvik Mitra, Faculty of Medicine

Innovation

- Mo AlGermozi (alumnus), co-founder, president & CEO of Graphite Innovation Technologies

“When I first started publishing, it was still difficult to get into the higher-impact scholarly journals because the ideas were bucking the normal trend of the conversation. So, it is a testament to the strength of the work and the colleagues and doctoral students I’ve worked with.”

Dr. Michael Unger, Tier 1 Canada Research Chair in Child, Family and Community Resilience, Department of Social Work

Dr. Michael Unger has gained a global reputation for challenging assumed wisdom that people independently summon the strength needed to thrive. In 2022, he was ranked by the journal Research of Social Work Practice as the world’s leading social work researcher based on the impact of his scholarly writing and citations.

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