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

As one of Canada’s leading research-intensive universities, Dalhousie plays an integral role in building the capacity of our region, Canada and the world. From our world-leading ocean research, to our trailblazing work in vaccinology that has seen our researchers take leadership roles at home and on the global stage, to our clean tech research that is charting a course toward a more sustainable future for us all, Dal researchers are pursuing innovations that have potential to transform our lives.

As I complete the last year of my first five-year term and look toward to my next term, I am inspired by how far we have come and electrified by the possibilities the future holds. Impact Together: Dalhousie’s Research and Innovation Strategic Direction, 2018-2023 gave us a solid foundation upon which to build. We have leveraged our strengths through our signature research clusters and anchored them in the UN’s Sustainable Development Goals, focusing us on meeting the world’s toughest challenges.

Research funding has steadily increased; with a total of $194 million for 2021 we are on course to well surpass our goal of $200 million by 2023. The productivity of our researchers also continues to expand every year with a 13% increase in publications in the last two years. We have also seen a 36% increase in research citations during the same period, reflecting the growing influence our researchers hold with peers around the world.

In 2021, we continued to build and sharpen our approach to commercialization, innovation and entrepreneurship. Our Office of Commercialization and Industry Engagement completed a restructuring to ensure we increase our industry partnerships and are better positioned to help build thriving businesses based on our research. Dal Innovates, our office of innovation and entrepreneurship, is now a formal office of the Office of the VPRI. With the most robust programming in Canada, we are training our students to have an innovation mindset, and connecting our community with venture creation, extraordinary talent, and more and better start-ups.

The next five years hold much promise as we grow our research clusters to leverage developing strengths, support national and regional priorities, and embrace opportunities to assume international leadership. Dalhousie University’s new strategic plan for 2021 to 2026, Third Century Promise, charts an ambitious path forward and places strong emphasis on research as one of its five central pillars. It supports and substantiates our established goals and places research at the centre of the university’s mission to make an impact in our region and around the world.

You will see in the pages that follow that our momentum is building with a sense of focus and purpose. We are weathering the pandemic and continue to achieve new heights. The skill and talent of our research community is truly inspiring and allows me to say with confidence – the best is yet to come.

Yours sincerely,

Dr. Alice B. Aiken, PhD
Professor and Vice-President Research and Innovation
Maximizing impact: Our signature research clusters

In Impact Together: Dalhousie’s Research and Innovation Strategic Direction, 2018-2023, we established five signature research clusters driven by two cross-cutting themes. By focusing our research efforts, we are leveraging our strengths and increasing our ability to bring meaningful solutions to the region, nation, and world.

- **Sustainable Ocean**
- **Healthy People, Healthy Communities, Healthy Populations**
- **Clean Tech, Energy, the Environment**
- **Food Security**
- **Culture, Society, Community Development**

**SIGNATURE RESEARCH CLUSTERS**

**INNOVATION AND ENTREPRENEURSHIP**

**Big Data**

**Harnessing our immune system to fight cancer – and winning**

**Mapping the ocean to solve climate, food and the biodiversity crisis**

**Using AI to enhance blueberry farming**

**Working with Tesla to advance battery science**

**Embracing Black Studies research**

Read more>
Making our work meaningful

We all want to leave the world a better place than where we found it – at Dal we have a strategy for that. We adopted the United Nations’ Sustainable Development Goals (SDGs), the most comprehensive shared objectives ever set by the international community, to guide the direction of our research. By using the SDGs as our roadmap, we are leveraging our greatest strengths and establishing local, national, and international partnerships to solve the most complex issues facing our world.

Dal research and innovation by the numbers

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.

ANNUAL RESEARCH FUNDING
$194M IN 2020/21

56 CANADA RESEARCH CHAIRS

3 NSERC HERZBERG GOLD MEDALS RECIPIENTS SINCE 2013

46 FELLOWS ROYAL SOCIETY OF CANADA

$220+ M OCEAN FRONTIER INSTITUTE

250+ START-UPS LAUNCHED SINCE 2005

25 MEMBERS RSC COLLEGE OF NEW SCHOLARS, ARTISTS AND SCIENTISTS

4 KILLAM PRIZE RECIPIENTS SINCE 2005
Where we ranked in 2021

Overall

251-300 Worldwide
12-14 in Canada
Times Higher Education World University Rankings

272nd Worldwide
12th in Canada
QS World University Rankings

201-300 Worldwide
9-12 in Canada
ShanghaiRanking Academic Ranking of World Universities

8th in Canada
Maclean’s Ranking of Canadian Medical Doctoral Universities

187th Worldwide
Global Employability University Ranking and Survey

By subject

QS World University rankings by subject
Read more >

Top 51-100
• Earth and Marine Science
• Geology
• Geophysics
• Petroleum Engineering

Shanghai Ranking rankings by subject
Read more >

Top 100
• Oceanography
• Atmospheric Science

Top 51-100

Measuring success

<table>
<thead>
<tr>
<th>Impact Factor</th>
<th>KPIs</th>
<th>Target</th>
<th>Baseline</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Productivity</td>
<td>Number of publications by academic staff (Scopus indexed)</td>
<td>Year-on-year increase in publications by Dal authors</td>
<td>8,779 publications, 2016-2018 (3-yr rolling total)</td>
<td>9,943 publications, 2018-2020</td>
</tr>
<tr>
<td></td>
<td>Citations of academic staff publications (Scopus indexed)</td>
<td>Year-on-year increase in citations of Dal-authored publications</td>
<td>57,564 citations, 2016-2018 (3-yr rolling total)</td>
<td>78,547 citations, 2018-2020</td>
</tr>
<tr>
<td>Research Funding</td>
<td>Research income (including industry)</td>
<td>Increase overall funding to $200 million over next 5 years</td>
<td>$156.6 million, FY2018</td>
<td>$194 million, FY2021</td>
</tr>
<tr>
<td></td>
<td>Industry income</td>
<td>Increase industry funding by 5% per year over next 5 yrs</td>
<td>$22.5 million, FY2018</td>
<td>$20.6 million, FY2021</td>
</tr>
<tr>
<td>International Collaboration</td>
<td>Number of international funding proposals submitted by academic staff</td>
<td>Year-on-year increase in number of proposals that are international in scope</td>
<td>14% of all proposals 2017-18</td>
<td>19% of all proposals, 2020-21</td>
</tr>
<tr>
<td>PhD Students</td>
<td>Number of PhD students</td>
<td>Additional 165 PhD students enrolled per year for next 4 years</td>
<td>663 PhD students enrolled, Dec 2018</td>
<td>791 PhD students enrolled, Dec 2021</td>
</tr>
<tr>
<td>Impact of the Sustainable Development Goals (SDGs)</td>
<td>Awareness among academic staff of the relevance/applicability of the SDGs to their research agendas</td>
<td>Year-on-year increase in percentage of funding applications in ROMEO identifying an SDG as relevant to the research</td>
<td>39.5% of all applications, FY 2019/20</td>
<td>70% of all applications, FY2020/21</td>
</tr>
</tbody>
</table>
Making a positive impact

Dalhousie researchers are making a difference with their ideas and innovations in ways that are having an impact locally, nationally, and around the world. They are forging partnerships and advancing knowledge across almost every field of study to generate discoveries that are affecting our lives for the better. Here are just a few examples of Dal researchers making positive change this year.

Protecting Nova Scotians with early COVID detection
Researchers Drs. Graham Gagnon and Amina Stoddart collaborated with co-investigators at Halifax Water and other Atlantic universities to implement an ambitious project to detect the presence of COVID-19 in wastewater well before it can spread. The researchers used a test developed by Dr. Gagnon, his team, and LuminUltra Technologies, a Canadian biotechnology company that recently filed a patent for the first complete rapid, on-site COVID-19 wastewater testing device.

Read more >

"Together we are working to develop a wastewater surveillance program on a provincial scale that will provide early and accurate detection of SARS-CoV-2, which could ultimately enable proactive and preventative COVID-19 health and economic response measures."

Dr. Graham Gagnon, Dean of Architecture and Planning, NSERC Industrial Research Chair and Director of the Centre for Water Resources Studies

Uncovering the root of severe COVID-19 outcomes in long-term care
The Faculty of Medicine’s Dr. Lisa Barrett, a researcher focused on infectious disease, is leading a team of experts in frailty, immunology, virology, and clinical infectious disease to investigate health factors that cause long-term care residents to experience severe COVID-19 outcomes, including death. The Government of Canada is funding the $1.9 million study, which is also exploring vaccine effectiveness in elderly populations, through its COVID-19 Immunity Task Force.

Read more >

“Our study aims to determine which health factors cause elderly people to be more susceptible to severe or fatal cases of COVID-19.”

Dr. Lisa Barrett, Division of Infectious Diseases

Shaping the future of human genome editing
Dr. Françoise Baylis is working with a committee of leading thinkers who are shaping the agenda of the Third International Summit on Human Genome Editing in London in March 2022. The author of CRISPR and the Ethics of Human Genome Editing will join peers from 11 nations to discuss the complexities presented by our increasing ability to edit human DNA, with the goal of providing direction for future ethical research. Earlier this year she was also elected as a member of the governing board for the International Science Council — an organization that promotes science as a global public good.

Read more >

Using satellites to track endangered right whales
PhD candidate Olivia Pisano and her supervisor Dr. Boris Worm are pursuing a new technique for studying the movements of right whales – from space. Working under the auspice of the Ocean Frontier Institute’s Future-proofing Marine Protected Area Networks project, the pair and their team have developed an algorithm that will allow whales to be identified and tracked in satellite imagery, allowing for real-time monitoring of their movements. The project received $1.1 million from Canada’s smartWhales initiative led by the Canadian Space Agency.

Read more >

“With climate change, the distribution of species is changing so rapidly, that the traditional approach of going back year after year is just not working anymore. To an endangered species that’s on the move, we need a different approach.”

Dr. Boris Worm, Killam Research Professor, Department of Biology

This year we established Dalhousie University’s Ocean Research Strategy 2021-2030

Read more >
Fuelling our research

Dalhousie’s researchers continue to inspire the confidence of our external funders who increase their support year over year. Investments by our federal and provincial governments, industry and not-for-profit partners, and other key stakeholders keep our faculty at the forefront of their research fields. We are better able to attract and retain the very best researchers and provide the tools they need to perform at the highest level. We are also able to train the next generation of researchers who will make discoveries that improve our environment, economy and communities.

Research funding: FY2020-2021

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Government</td>
<td>$110,653,423</td>
</tr>
<tr>
<td>Other</td>
<td>$1,550,864</td>
</tr>
<tr>
<td>Not for Profit</td>
<td>$14,295,472</td>
</tr>
<tr>
<td>Universities/Colleges</td>
<td>$18,861,164</td>
</tr>
<tr>
<td>Institutes/Centres/Networks</td>
<td>$12,618,317</td>
</tr>
<tr>
<td>Industry</td>
<td>$20,627,267</td>
</tr>
<tr>
<td>Foreign Government</td>
<td>$4,248,069</td>
</tr>
<tr>
<td>Provincial Government</td>
<td>$11,215,407</td>
</tr>
<tr>
<td>Total Research Funding</td>
<td>$194,069,983</td>
</tr>
</tbody>
</table>

Major grants awarded in 2021

<table>
<thead>
<tr>
<th>Funding Agency</th>
<th>Initiative/Project</th>
<th>Principal Investigator/Faculty</th>
<th>Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada Foundation for Innovation (CFI) &amp; Research Nova Scotia (RNS)</td>
<td>Innovation Fund, Faculties of Computer Science, Engineering, Medicine &amp; Science</td>
<td>Eight projects funded</td>
<td>$13.3M CFI $12.8M RNS</td>
</tr>
<tr>
<td>Natural Sciences and Engineering (NSERC)</td>
<td>Alliance, Three projects funded, Faculty of Science</td>
<td>$9.9M</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences and Engineering (NSERC)</td>
<td>Collaborative Research and Training Experience Program (CREATE)</td>
<td>Dr. Michael Freund, Faculty of Science</td>
<td>$2.1M</td>
</tr>
<tr>
<td>Veterans Affairs Canada &amp; Global Affairs Canada</td>
<td>Fund for Innovation and Transformation</td>
<td>Dalhais Institute for Children, Peace and Security</td>
<td>$1.3M</td>
</tr>
<tr>
<td>Canadian Heritage</td>
<td>A Black People’s History of Canada</td>
<td>Dr. Afua Cooper, Faculty of Arts and Social Sciences</td>
<td>$1.03M</td>
</tr>
</tbody>
</table>

Serving our researchers

The Office of Research Services helps our faculty seek financial support for their research and undertake collaborative research with industry, government, and international organizations to help maximize their ability to attract research funding.

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research applications submitted to funding agencies in 2021</td>
<td>1423+</td>
</tr>
<tr>
<td>New accounts approved to be opened in 2021</td>
<td>895+</td>
</tr>
<tr>
<td>Active project files at Dal as of Dec 2021</td>
<td>3083</td>
</tr>
<tr>
<td>Transfers of research funds authorized in 2021</td>
<td>171</td>
</tr>
<tr>
<td>New projects submitted for research ethics review in FY2020-21</td>
<td>404</td>
</tr>
</tbody>
</table>
Funding at work

A substantial boost to Dal innovation
A group of seven researchers received a $13.2 million investment through the Canada Foundation for Innovation’s Innovation Fund to support the creation of research infrastructure. From exploring the ocean to understanding exposure to cancer-causing substances and advancing sustainable energy technology, the grants will provide Dalhousie scientists with the valuable resources they need to produce groundbreaking innovations. Critical partnership funding has since been provided by Research Nova Scotia.

“Researchers receive $6M to build next generation of batteries”
Researchers Drs. Jeff Dahn, Chongyin Yang and Michael Metzger received $2.9 million in funding from the Natural Sciences and Engineering Research Council and an additional $3.1 million from Tesla to develop advanced batteries for electric vehicles and grid energy storage. For the past five years, Dr. Dahn has worked with Tesla on technology that could lead to a new battery cell enabling a million miles in a battery pack.

“Accelerating African Canadian knowledge mobilization”
Dr. Afua Cooper received more than $1 million in funding from the Ministry of Canadian Heritage to lead research that aims to fill a gap in African Canadian history education. The new project, called A Black People’s History of Canada, will support leading Black history scholars and organizations to create engaging new classroom-ready learning materials and digital media about the history of Black Canadians.

Training future clean tech leaders
Dr. Michael Freund was the recipient of $1.6 million in Natural Sciences and Engineering Research Council funding through its Collaborative Research and Training Experience program. The program is designed to improve the training and mentoring environment for Canadian researchers. Dr. Freund is focused on developing a cross-disciplinary program that will produce highly qualified energy and sustainability professionals ready to ensure Canada’s role as a global leader in the emerging energy revolution.

Understanding the impact of child soldiers
The Dallaire Institute for Children, Peace, and Security received $1.3M from Canada’s Ministry of Veterans Affairs to pursue research focused on the mental health impacts of exposure to child soldiers during military service. The study will also explore what kinds of training and supports are needed for military personnel and veterans who may be or have been deployed to regions where child soldiers operate.

“Researching, writing, conceptualizing, and teaching Black history in a comprehensive manner will produce a seismic shift in African Canadian knowledge mobilization.”
Dr. Afua Cooper, Department of Sociology and Social Anthropology
Commercialization, innovation, and entrepreneurship

As a leading Canadian research-intensive university, Dalhousie has a responsibility to ensure our students and larger community are empowered with the venture creation skills, resources, and mindset necessary to bring our innovations to the world. We are equipping and encouraging our researchers to commercialize their ideas and actively partnering them with industry. We have grown our slate of venture creation programs which attract hundreds of students, faculty and industry partners to take part each year. The result has been more skilled start-ups, expanding the innovation economy in the region and making waves nationally and around the world.

Cultivating an entrepreneurial mindset

Dal Innovates is an engine of entrepreneurship training based at Dalhousie, supporting the venture creation ecosystem across Atlantic Canada and beyond. Our programs empower the community to build enterprises from the initial spark of an idea to validation, commercialization, and investment. Playing a key role in the local, regional, and national network of incubators and accelerators, our programs are providing a runway for students to take flight in venture creation. In 2021, Dal Innovates joined the OVPRI as an official office with a goal to better align their programs with Dal’s research strengths and leverage innovation at the university.

A string of accomplishments

Founded by Dr. John Frampton, Canada Research Chair in Biomaterials, the start-up 3D BioFibR has charted a course through the Dalhousie entrepreneurship ecosystem. The Dal spin-off began as an innovation disclosure by Dr. Frampton to Dal’s Office of Commercialization and Industry Engagement, where he received patenting support for his proprietary “dry-spinning” process to produce low denier biofibres that can be likened to spider’s thread. His co-founder and former master’s student Gurkaran Chowdhry went on to participate in Ready2Launch, where Gurkaran assessed their market and learned how to use customer feedback to guide product development. Their next stop was CDL-Atlantic where the company received advice on how to scale their operations and connected with investors, ultimately raising $750,000 in 2021, building on $550,000 in investment in 2020.

A successful test of strength

When studying biochemistry and molecular biology, postdoctoral fellow Dr. Rafaela Andrade found there was weakness when it comes to options for assessing muscle strength. So, she created a new test using biomarkers to measure muscle capacity, an innovation that could become an essential tool for medical practitioners. To test her product’s market validity, she joined Lab2Market and followed it with Ready2Launch, drawing on the programs to transform her idea into a venture with a business plan. With confirmation of consumer demand, Rafaela incorporated her company with the name Myomar Molecular in April 2021. She and her team have since secured $100,000 in funding and are now engaged in CDL-Atlantic and Emera ideaHUB where they are prototyping their product.
A good year for Creative Destruction Lab (CDL)-Atlantic

CDL-Atlantic is a seed stage program for massively scalable science and tech startups with a mission to accelerate the commercialization of science for the betterment of humankind. This year saw the program double in size with a new focused Oceans Stream adding to the established Prime Stream that supports companies with high growth potential from across a range of industries. Bringing in mentors from around the world, the Oceans Stream is attracting the best companies locally and globally by bringing greater awareness to the burgeoning sector in the region.

Building bonds with industry

Our Office of Commercialization and Industry Engagement (OCIE) announced its new name at the beginning of 2021, ushering in a strategic restructure that allows the unit to more agilely support researchers whose innovations can be enhanced with the support and collaboration of industry. The office is establishing new alliances with private sector partners and engaging in proactive outreach to increase the number of researchers engaged with their services.

New in 2021

Focused on creating a more resilient and adaptable workforce through improved mentorship, MindFrame Connect was launched to support the venture creation ecosystem at Dalhousie and beyond. The team will create and pilot new entrepreneurial resilience training and mentor upskilling to enhance Dal’s offerings and feed into the larger Canadian ecosystem.

Programs by the numbers

<table>
<thead>
<tr>
<th>Since 2020</th>
<th>Since 2020</th>
<th>Since 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>55 researchers supported</td>
<td>62 new employees</td>
<td>106 new employees</td>
</tr>
<tr>
<td>11 start-ups formed</td>
<td>17 start-ups supported</td>
<td>54 start-ups supported</td>
</tr>
<tr>
<td>$1M funding secured</td>
<td>$1.8M funding secured</td>
<td>$28M funding secured</td>
</tr>
</tbody>
</table>

2020–2021

- 569 research & service agreements supported
- 14 patents filed
- 27 patents issued
- 10 technology licenses completed

Since 2017

- 40 ventures supported
- $26M funding secured
- $160M equity value creation

- 113 ventures supported
- $114M funding secured
- $625M equity value creation

Since 2019

- 54 start-ups supported
- $28M funding secured
- 10 technology licenses completed

Since 2017

- 40 ventures supported
- $26M funding secured
- $160M equity value creation

- 113 ventures supported
- $114M funding secured
- $625M equity value creation
Recognizing excellence

Our Canada Research Chairs

They stand at the centre of Canada’s strategy to become a global leader in research and development. With the goal of enabling Canadian universities to achieve the highest levels of research excellence, Canada Research Chairs (CRCs) are selected for their potential to make an impact now and in the future.

Read about Dal’s 2021 CRCs: June announcement > January announcement >

Canada Research Chairs (CRCs) announced in 2021

TIER 1

Chairholder: Dr. Stanley Asah
Title: Tier 1 CRC in Social Dimensions of Clean Technology
Type: New
Faculty: Management
Value & Duration: $1.4M over 7 years

Chairholder: Dr. JianLi Wang
Title: Tier 1 CRC in Health Data Science and Innovation
Type: New
Faculty: Medicine
Value & Duration: $1.4M over 7 years

Chairholder: Dr. Rudolf Uher
Title: Tier 1 CRC in Early Interventions in Psychiatry
Type: Advancement
Faculty: Medicine
Value & Duration: $1.4M over 7 years

Chairholder: Dr. Stanley Asah
Title: Tier 1 CRC in Social Dimensions of Clean Technology
Type: New
Faculty: Management
Value & Duration: $1.4M over 7 years

Chairholder: Dr. JianLi Wang
Title: Tier 1 CRC in Health Data Science and Innovation
Type: New
Faculty: Medicine
Value & Duration: $1.4M over 7 years

Chairholder: Dr. Rudolf Uher
Title: Tier 1 CRC in Early Interventions in Psychiatry
Type: Advancement
Faculty: Medicine
Value & Duration: $1.4M over 7 years

TIER 2

Chairholder: Dr. Carlos Hernandez Castillo
Title: Tier 2 CRC in Artificial Intelligence for Health
Type: New
Faculty: Computer Science
Value & Duration: $600K over 5 years

Chairholder: Dr. Carlos Hernandez Castillo
Title: Tier 2 CRC in Artificial Intelligence for Health
Type: New
Faculty: Computer Science
Value & Duration: $600K over 5 years

Chairholder: Dr. (Miriam) Ruth Lavergne
Title: Tier 2 CRC in Indigenous Governance
Type: New
Faculty: Law & Management
Value & Duration: $600K over 5 years

Chairholder: Dr. Rachel Chang
Title: Tier 2 CRC in Atmospheric Science
Type: Renewal
Faculty: Science
Value & Duration: $500K over 5 years

Chairholder: Dr. Morgan Langille
Title: Tier 2 CRC in Human Microbiomics
Type: Renewal
Faculty: Medicine
Value & Duration: $500K over 5 years

Chairholder: Dr. Mohammad Hajizadeh
Title: Tier 2 CRC in Health Economics
Type: New
Faculty: Health
Value & Duration: $600K over 5 years

Chairholder: Dr. Chike Jeffers
Title: Tier 2 CRC in Africana Philosophy
Type: New
Faculty: Arts & Social Sciences
Value & Duration: $600K over 5 years

Chairholder: Dr. Chike Jeffers
Title: Tier 2 CRC in Africana Philosophy
Type: New
Faculty: Arts & Social Sciences
Value & Duration: $600K over 5 years

Chairholder: Dr. Morgan Langille
Title: Tier 2 CRC in Human Microbiomics
Type: Renewal
Faculty: Medicine
Value & Duration: $500K over 5 years
University Research Professors:
The title of University Research Professor is granted to a limited number of Dalhousie faculty members who have made significant achievements in scholarship. In 2021 the distinction goes to:

Read more >

Dr. Robert Currie  
Schulich School of Law

Dr. Ratika Parkash  
Faculty of Medicine

Dr. Craig McCormick  
Faculty of Medicine

Dr. Nur Zincir-Heywood  
Faculty of Computer Science

The Arthur B. McDonald Chair of Research Excellence:
The Arthur B. McDonald Chair was established in 2016 to honour the Dalhousie alumnus and Nobel Laureate and recognize and retain professors of high calibre at the university. This year, the honour goes to:

Read more >

Dr. John Archibald  
Faculty of Medicine

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

Read more >

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

Next Wave Funding
This year, the OVPRI established the Next Wave Fund, new internal funding for Centres and Institutes to help accelerate their research and innovation initiatives. To be offered annually, the new fund will help further important research being conducted in key areas.

The 2021 recipients are:

- Beatrice Hunter Cancer Research Institute (BHCRI)
- Centre for the Study of Security and Development (CSSD)
- Centre for Transformative Nursing and Health Research (CTNHR)
- Clean Technologies Research Institute (CTRI)
- Institute for Comparative Genomics (ICG)
- Marine and Environmental Law Institute (MELAW)
- Nuclear Magnetic Resonance Research Resource (NMR3)
Prizes and honours for Dal researchers in 2021

Congratulations to all of the Dal researchers who were recognized for their research in 2021. The following is just a sampling of our many achievements.

ORDER OF CANADA

Officer
- Dr. Patricia Livingston, Faculty of Medicine

Members
- Dr. Mary Brooks, Faculty of Management
- Dr. Allan S. MacDonald, Faculty of Medicine

Order of magnitude: Dal researchers, alumni join Order of Canada ranks
Read the story >

GOVERNOR GENERAL’S INNOVATION AWARD

• Dr. James Robar, Faculty of Medicine

Dal prof receives Governor General’s Innovation Award for 3D printed devices that improve cancer care treatment
Read the story >

THE RYMAN PRIZE

• Dr. Kenneth Rockwood, Faculty of Medicine

World-leading geriatrician and anti-ageism campaigner wins the Ryman Prize
Read the story >

Belong Research Fellowship Awards

The Belong Research Fellowships were established in 2018 to support tenure-track faculty from equity-deserving groups to pursue small research projects of one to two years’ duration. The 2021 recipients are:

• Dr. Masud Rahman, Faculty of Computer Science
• Dr. Asha Jeffers, Faculty of Arts & Social Sciences
• Dr. Olabisi Akinkugbe, Faculty of Law
• Dr. Yang Gu, Faculty of Dentistry
• Dr. Alana Westwood, Faculty of Management
• Dr. Tasha Richard, Faculty of Agriculture

Recognizing excellence
QUEEN’S UNIVERSITY REHABILITATION SCIENCE DISTINGUISHED ALUMNI AWARD
• Dr. Alice Aiken, Vice President Research and Innovation
Dal’s Alice Aiken receives Distinguished Alumni Award for commitment to military and veteran health research
Read the story >

CS-CAN/INFO-CAN OUTSTANDING EARLY CAREER RESEARCHER AWARD
• Dr. Rita Orji, Faculty of Computer Science
Dal’s Rita Orji honoured with top Canadian computer science research award
Read the story >

NSERC AWARD FOR SCIENCE PROMOTION
• Kevin Hewitt, Faculty of Science
Science champion: Kevin Hewitt recognized by NSERC with its Science Promotion Award
Read the story >

CANADIAN ACADEMY OF HEALTH SCIENCES (CAHS):
• Dr. Christine Chambers, Faculty of Medicine CAHS Fellow
• Dr. Gail Tomblin Murphy, Faculty of Health CAHS Fellow
Two Dalhousie researchers inducted into prestigious Canadian Academy of Health Sciences
Read the story >

CANADIAN SOCIETY FOR CIVIL ENGINEERING ALBERT E. BERRY MEDAL
• Dr. Graham Gagnon, Dean of Architecture and Planning
Dal professor honoured with national award for his work on water quality and its links to human health
Read the story >

DISCOVERY AWARDS
Discovery Centre Science Hall of Fame Inductee
• Dr. Noni MacDonald, Faculty of Medicine
Professional of Distinction
• Dr. Gail Tomblin Murphy, Faculties of Health and Medicine
Emerging Professional
• Dr. Rita Orji, Faculty of Computer Science
Science Champion
• Dr. Lisa Barrett, Faculty of Medicine
2021 Discovery Awards celebrate the career of a Dal research icon and a new generation of leaders
Read the story >

HARRY C. ROWSELL AWARD FOR OUTSTANDING SERVICE TO THE CANADIAN COUNCIL ON ANIMAL CARE
• Dr. Chris Harvey-Clark, Director of Animal Care
Dal veterinarian honoured with national award for dedication to animal welfare in science
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CANADIAN SOCIETY FOR CHEMISTRY AWARDS
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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.

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DALHOUSIE PRESIDENT’S RESEARCH EXCELLENCE AWARDS

Emerging Investigator awards
- Dr. Jeanette Boudreau, Faculty of Medicine
- Dr. Leah Cahill, Faculty of Medicine
- Dr. Saurabh Chitnis, Faculty of Science
- Dr. Shashi Gujjar, Faculty of Medicine
- Dr. Israat Haque, Faculty of Computer Science
- Dr. Naomi Metallic, Faculty of Law

Research Impact awards
- Dr. Elaine Craig, Faculty of Law
- Dr. David Kelvin, Faculty of Medicine
- Dr. Mark Obrovac, Faculty of Science

Meet the 2021 President’s Research Excellence Award winners.
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