

*2021 Annual Report*

# **DALHOUSIE RESEARCH & INNOVATION**



**DALHOUSIE  
UNIVERSITY**

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## 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.

Mapping the ocean to solve climate, food and the biodiversity crisis  
[Read more>](#)

Harnessing our immune system to fight cancer – and winning  
[Read more>](#)



Working with Tesla to advance battery science  
[Read more>](#)

Using AI to enhance blueberry farming  
[Read more>](#)

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

3  
NSERC  
HERZBERG  
GOLD MEDALS  
RECIPIENTS SINCE 2013

\$220+ M  
OCEAN  
FRONTIER INSTITUTE

56  
CANADA  
RESEARCH CHAIRS

46  
FELLOWS  
ROYAL SOCIETY  
OF CANADA

25  
FELLOWS  
CANADIAN ACADEMY OF  
HEALTH SCIENCES

250+  
START-UPS  
LAUNCHED SINCE 2005

20  
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

[Read more >](#)

**272<sup>nd</sup>  
Worldwide**

**12<sup>th</sup> in Canada**

QS World  
University  
Rankings

[Read more >](#)

**201-300  
Worldwide**

**9-12 in Canada**

ShanghaiRanking  
Academic  
Ranking of World  
Universities

[Read more >](#)

**8<sup>th</sup>  
in Canada**

Maclean's  
Ranking of  
Canadian  
Medical  
Doctoral  
Universities

[Read more >](#)

**187<sup>th</sup>  
Worldwide**

Global  
Employability  
University  
Ranking and  
Survey

[Read more >](#)

### 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**

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**Top 100**

- Oceanography
- Atmospheric  
Science

### Our impact

Times Higher Education Impact rankings based on UN Sustainable Development Goals

[Read more >](#)

**101-200  
Overall**

**16<sup>th</sup>**



**22<sup>nd</sup>**



**38<sup>th</sup>**



**53<sup>rd</sup>**



## Measuring success

Impact Factor	KPIs	Target	Baseline	2021
Research Productivity	Number of publications by academic staff (Scopus indexed)	Year-on-year increase in publications by Dal authors	8,779 publications, 2016-2018 (3-yr rolling total)	9,943 publications, 2018-2020
	Citations of academic staff publications (Scopus indexed)	Year-on-year increase in citations of Dal-authored publications	57,564 citations, 2016-2018 (3-yr rolling total)	78,547 citations, 2018-2020
Research Funding	Research income (including industry)	Increase overall funding to \$200 million over next 5 years	\$156.6 million, FY2018	\$194 million, FY2021
	Industry income	Increase industry funding by 5% per year over next 5 yrs	\$22.5 million, FY2018	\$20.6 million, FY2021
International Collaboration	Number of international funding proposals submitted by academic staff	Year-on-year increase in number of proposals that are international in scope	14% of all proposals 2017-18	19% of all proposals, 2020-21
PhD Students	Number of PhD students	Additional 165 PhD students enrolled per year for next 4 years	663 PhD students enrolled, Dec 2018	791 PhD students enrolled, Dec 2021
Impact of the Sustainable Development Goals (SDGs)	Awareness among academic staff of the relevance/ applicability of the SDGs to their research agendas	Year-on-year increase in percentage of funding applications in ROME0 identifying an SDG as relevant to the research	39.5% of all applications, FY 2019/20	70% of all applications, FY2020/21

## 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.



“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*

### 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 >](#)

### 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 >](#)

### 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*



### 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*



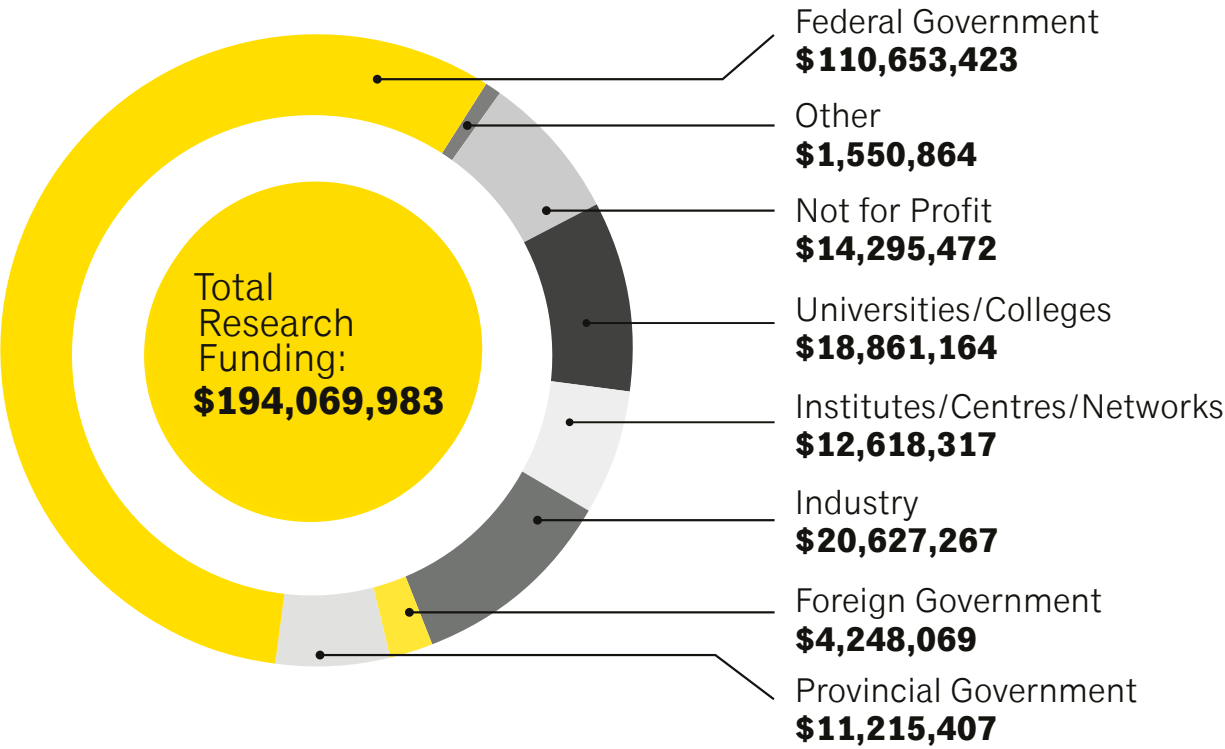
**This year we established Dalhousie University’s Ocean Research Strategy 2021-2030**

[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



## Major grants awarded in 2021

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



## 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.

1423+	895+	3083	171	404
Research applications submitted to funding agencies in 2021	New accounts approved to be opened in 2021	Active project files at Dal, as of Dec 2021	Transfers of research funds authorized in 2021	New projects submitted for research ethics review in FY2020-21



## 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 ground-breaking innovations. Critical partnership funding has since been provided by Research Nova Scotia.

[Read more >](#)



“This will allow Chongyin, Michael and I to solve many remaining puzzles that will help improve battery lifetime and lower cost.”

*Dr. Jeff Dahn,  
Canada Research Chair and NSERC/  
Tesla Canada Industrial Research Chair*

### 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.

[Read more >](#)

### 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.

[Read more >](#)

### 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.

[Read more >](#)



### 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.

[Read more >](#)



“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

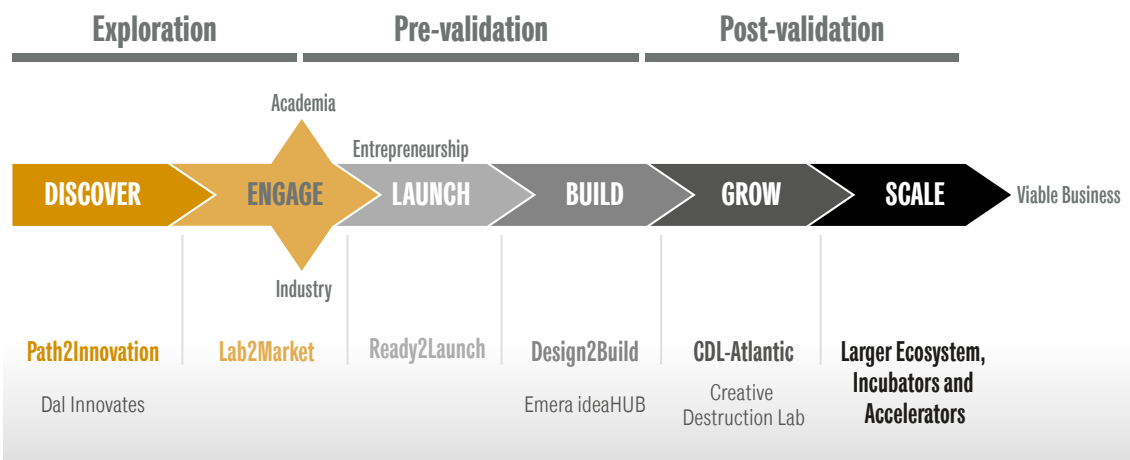
As a leading Canadian research-intensive university, Dalhousie has a responsibility to ensure our students and larger community are empowered with the venture creation skills, resources, and mindset necessary to bring our innovations to the world. We are equipping and encouraging our researchers to commercialize 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.

### The Dal Innovates program pipeline

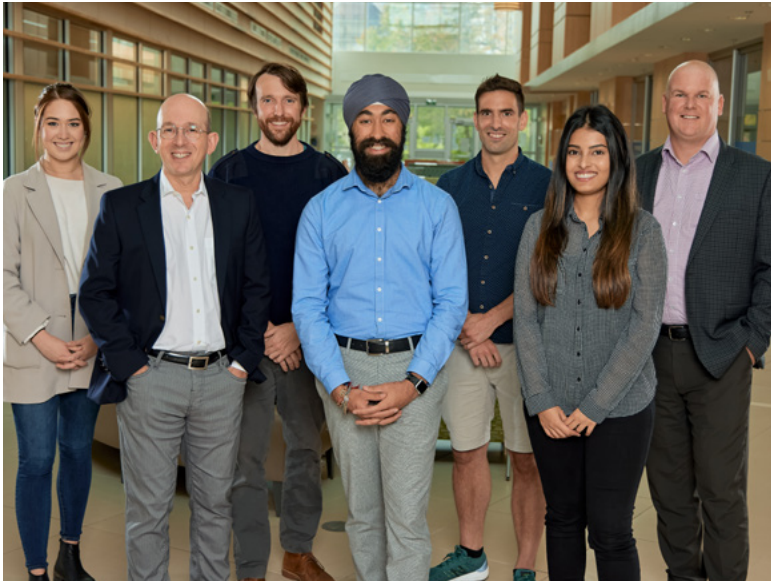


## Leveraging the innovation ecosystem

### 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.

[Read more >](#)



### 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.

[Read more >](#)





Programs by the numbers

Lab2 Market	Ready2 Launch	Emera ideaHUB
Since 2020	Since 2020	Since 2019
55 RESEARCHERS SUPPORTED	62 NEW EMPLOYEES	106 NEW EMPLOYEES
11 START-UPS FORMED	17 START-UPS SUPPORTED	54 START-UPS SUPPORTED
\$1M FUNDING SECURED	\$1.8M FUNDING SECURED	\$28M FUNDING SECURED

2020–2021

569 RESEARCH & SERVICE AGREEMENTS SUPPORTED

14 PATENTS FILED

27 PATENTS ISSUED

10 TECHNOLOGY LICENSES COMPLETED

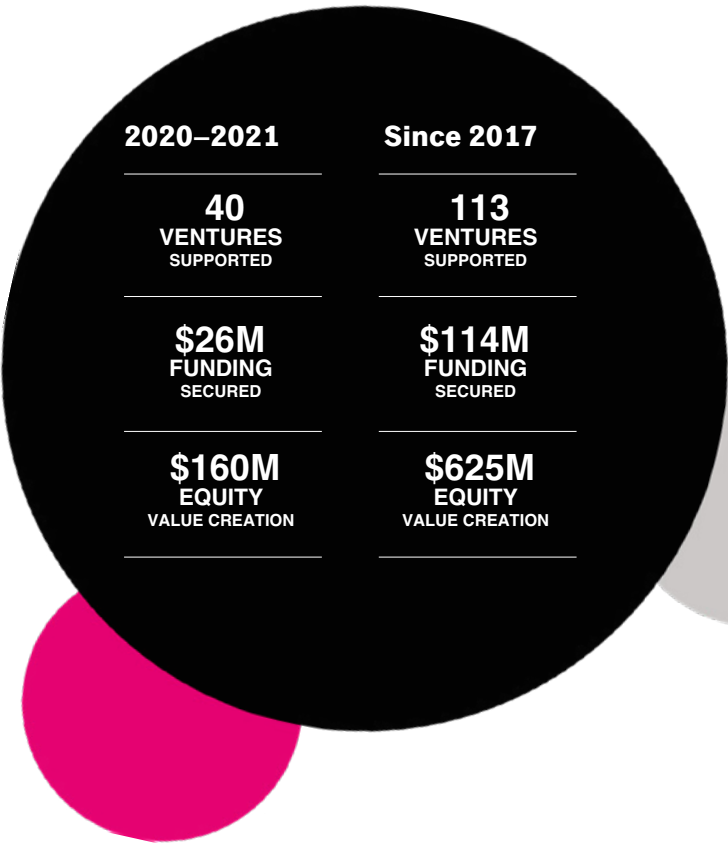
**Building bonds with industry**

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.



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.



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.



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



**Chairholder:**  
JianLi Wang  
**Title:** Tier 1 CRC in Health Data Science and Innovation  
**Type:** New  
**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. Chike Jeffers  
**Title:** Tier 2 CRC in Africana Philosophy  
**Type:** New  
**Faculty:** Arts & Social Sciences  
**Value & Duration:** \$600K over 5 years



**Chairholder:**  
Dr. (Miriam) Ruth Lavergne  
**Title:** Tier 2 CRC in Primary Care  
**Type:** New  
**Faculty:** Medicine  
**Value & Duration:** \$600K over 5 years



**Chairholder:**  
Dr. Sherry Pictou  
**Title:** Tier 2 CRC in Indigenous Governance  
**Type:** New  
**Faculty:** Law & Management  
**Value & Duration:** \$600K over 5 years



**Chairholder:**  
Dr. Haorui Wu  
**Title:** Tier 2 CRC in Resilience  
**Type:** New  
**Faculty:** Health  
**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



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)



### 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



### 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 >](#)

#### ROYAL SOCIETY OF CANADA

##### Fellows

- Dr. Julie LaRoche, Faculty of Science
- Dr. Noni MacDonald, Faculty of Medicine
- Dr. Boris Worm, Faculty of Science

##### College Members

- Dr. Lisa Binkley, Faculty of Arts and Social Sciences
- Dr. Mita Dasog, Faculty of Science
- Dr. Noreen Kamal, Faculty of Engineering
- Dr. Debbie Martin, Faculty of Health

*Royal Society of Canada recognizes research excellence at Dalhousie*

[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 CHEMISTRY AWARDS

- Dr. Mark Stradiotto,  
Faculty of Science
- Dr. Laura Turculet,  
Faculty of Science
- Dr. Alison Thompson,  
Faculty of Science

*Chemistry's winning streak  
continues: Department lands  
three awards from Canada's top  
chemistry association*

[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 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 >](#)

#### 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*

[Read the story >](#)

#### 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 >](#)

#### 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*

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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 Gujar, 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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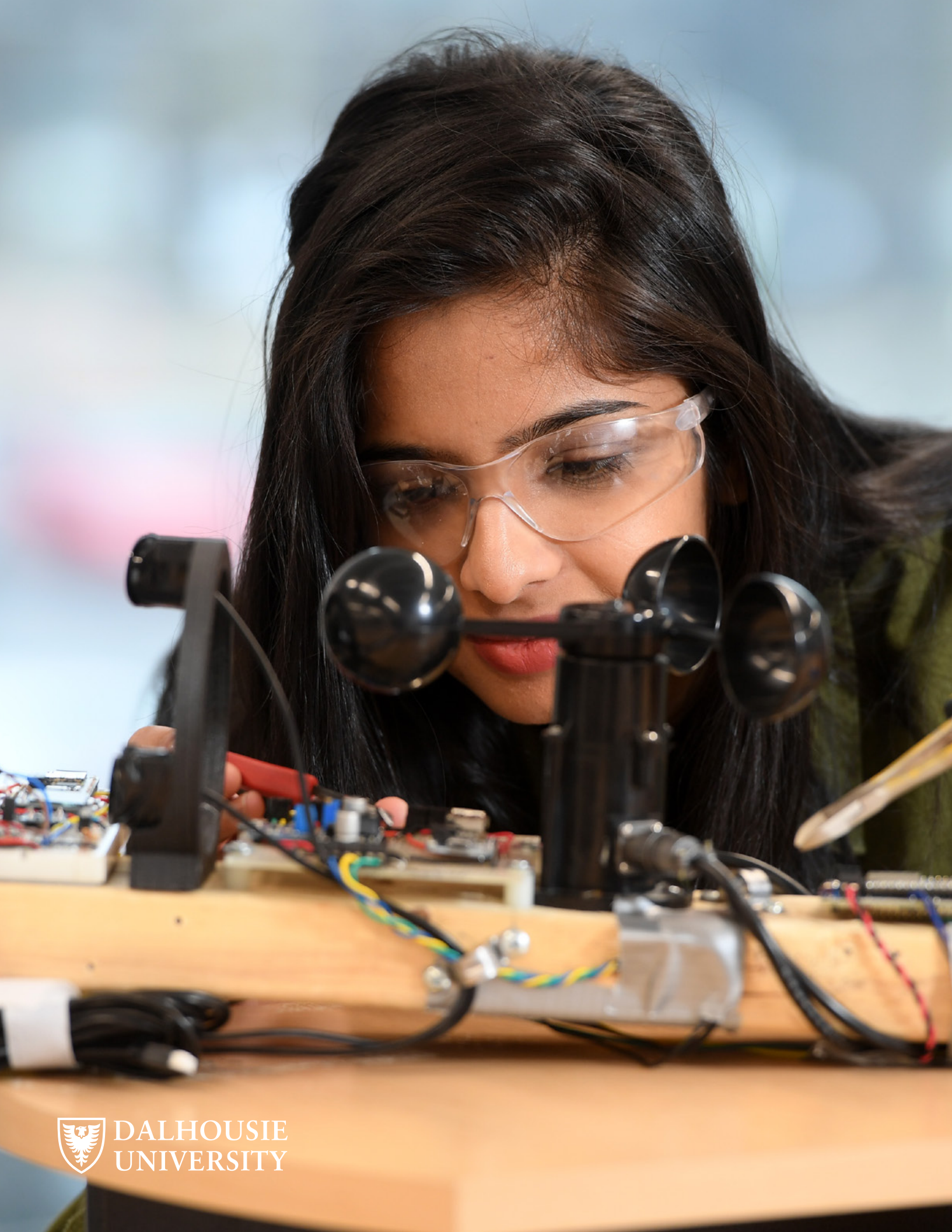
**Dalhousie Research Advisory Council**

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 for 2021**

- Dr. Alice Aiken**, Vice-President Research and Innovation (Chair)
- Dr. Jennifer Bain**, Interim Associate Vice President Research
- Dr. Robert Beiko**, Associate Dean Research, Faculty of Computer Science
- Dr. Shaun Boe**, Associate Dean Research, Faculty of Health
- Donna Bourne-Tyson**, Dean of Libraries
- Dr. Chris Cutler**, Associate Dean Research, Faculty of Agriculture
- Dr. Eileen Denovan-Wright**, Associate Dean Research, Faculty of Medicine
- Dr. Mark Filiaggi**, Associate Dean Research, Faculty of Dentistry
- Dr. Ahsan Habib**, Director, School of Planning
- 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
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- Dr. Theresa Rajack-Talley**, Vice-Provost, Equity & Inclusion
- Dr. Marlies Rise**, Assistant Vice President, Research Services
- Dr. Sara Seck**, Associate Dean Research, Faculty of Law
- Dr. Jeannie Shoveller**, VP Research, Innovation & Knowledge Transfer, IWK Health Centre
- Dr. Gail Tomblin Murphy**, VP Research, Innovation & Discovery and Chief Nurse Executive, NSH
- Dr. Peter VanBerkel**, Associate Dean Research, Faculty of Engineering
- Dr. Anya Waite**, Associate Vice President (Ocean) & Scientific Director, Ocean Frontier Institute
- Dr. Dominika Wranik**, Associate Dean Research, Faculty of Management
- Dr. Julia Wright**, Associate Dean Research, Faculty of Arts and Social Sciences





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