



FOR INFORMATION	PUBLIC	OPEN SESSION
то:	UTSC Academic Affairs Committee	
SPONSOR: CONTACT INFO:	Irena Creed, Vice-Principal Research and Innovation, UTSC 416-208-4835, <u>irena.creed@utoronto.ca</u> or <u>vpresearch.utsc@utoronto.ca</u>	
PRESENTER: CONTACT INFO:	See Sponsor	
DATE:	April 13, 2023 for May 1, 2023	
AGENDA ITEM:	2	
ITEM IDENTIFICATION.		

ITEM IDENTIFICATION:

Annual Report of the Office of the Vice-Principal, Research and Innovation

JURISDICTIONAL INFORMATION:

Under section 5.7 of its Terms of Reference, the "Committee receives annually, from the appropriate administrators, reports on services within its areas of responsibility, including research"

GOVERNANCE PATH:

- 1. Academic Affairs Committee [For Information] (May 1, 2023)
- 2. Campus Council [For Information] (May 24, 2023)

PREVIOUS ACTION TAKEN:

No previous action has been taken on this item

HIGHLIGHTS:

This presentation for the Office of the Vice-Principal Research and Innovation (OVPRI) provides an update.

FINANCIAL IMPLICATIONS:

n/a

RECOMMENDATION:

Presented for information

Annual Report of the Office of the Vice-Principal Research & Innovation UTSC Academic Affairs Committee – May 1st, 2023

DOCUMENTATION PROVIDED:

Power Point Presentation.

Office of the Vice-Principal Research & Innovation's Annual Report (April 2022-March 2023):

Transforming UTSC

Meet THE OVPRI TEAM!

SENIOR LEADERSHIP







Grace Skogstad Interim AVPRI-SIP



Shaun Young DIRECTOR



Suhail Asrar MANAGER OF OPERATIONS & PROJECT MANAGEMENT

ADMINISTRATION



TBD EA to the VPRI

Kristine Peruzzi



Carmen Siu **RESEARCH OPERATIONS &** ASSISTANT TO VPRI FINANCIAL OFFICER



GRANT DEVELOPMENT

Sharon George MANAGER, RESEARCH **SERVICES & PARTNERSHIPS**



Anika Mifsud Jovana Drinjakovic RESEARCH ADMINISTRATION OFFICERS



TBD **EDITORIAL & PROPOSAL** DEVELOPMENT OFFICER







Michelle Wodzak DIRECTOR



Fay Dai MANAGER, RESEARCH ACCELERATION

TBD



Cintia Cristia STRATEGIC RESEARCH DEVELOPMENT OFFICERS





Brice Rousseau Jason Darby **RESEARCH PARTNERSHIP & BUSINESS** DEVELOPMENT OFFICERS



Donovan Dill **OPERATIONS LEAD**



Jenefer Savoeung HUB PROGRAM COORDINATOR

AWARDS & COMMUNICATION



TBD **RESEARCH AWARDS &** HONOURS OFFICER



Joshua Van Ry **RESEARCH SERVICES** OFFICER



2

UTSC's vision is to constructively disrupt the status quo, connect the world, and advance transformative change for the good of all.

UTSC is transforming the campus to improve the health of people and the planet by integrating the UN SDGs into the DNA of our campus.



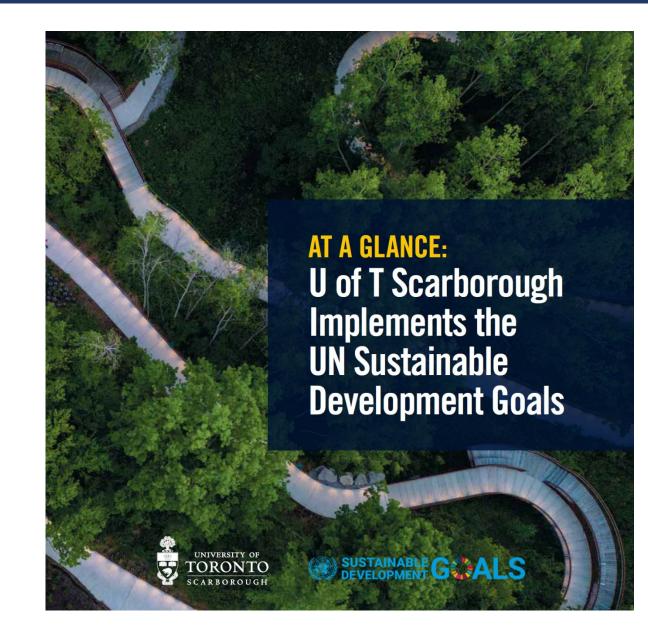
Five design aspirations are guiding this transformation.

- 1. Leverage our place
- 2. Model the way
- 3. Capitalize on strengths
- 4. Empower action
- 5. Catalyze Social Change

U of T ranked 2nd in the world in first-ever QS sustainability ranking!



We recently celebrated our successes in sustainability at UTSC.



<u>One</u> way is to help achieve the transformation is via the "institutes for <u>Resilient and Inclusive</u> <u>Societies and Ecosystems."</u>



We engaged in a number of conversations with the UTSC community about iRISE and its inaugural institutes.

Institute for Environment, Conservation, & Sustainability

Institute for Inclusive Health & Well-Being



Imre Szeman, Director, Professor, Human Geography

Charles The Interim I Professo and Soci

Charles Trick Interim Director, Professor, Health and Society



Allison Crawford Incoming Director, Associate Professor, Health and Society

Institute for Inclusive Economies & Sustainable Livelihoods



Caroline Hossein Interim Director, Associate Professor, Global Development Studies



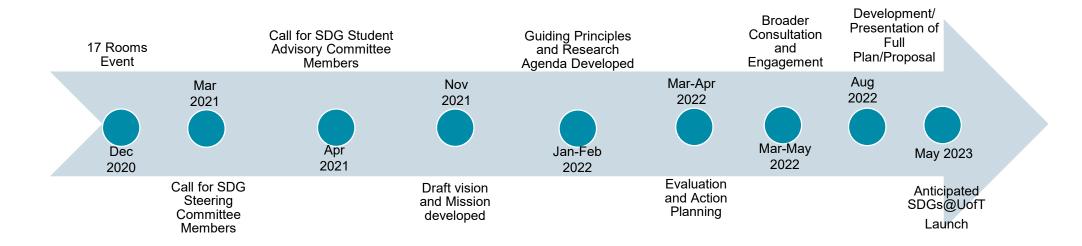
Sergio Montero Munoz Incoming Director Associate Professor, Human Geography We also continued conversations on a proposal for an institutional strategic initiative (ISI) on the SDGS

SDGs @ U of T

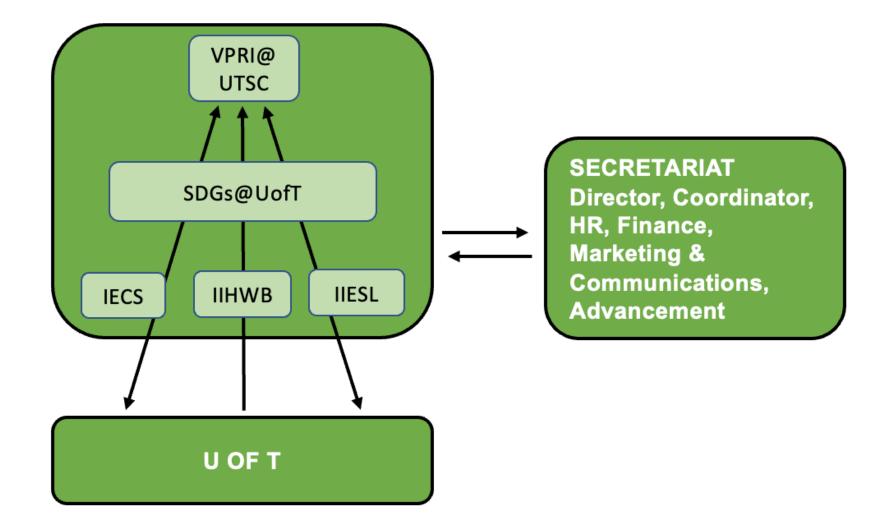
Academic Lead: Erica Di Ruggiero



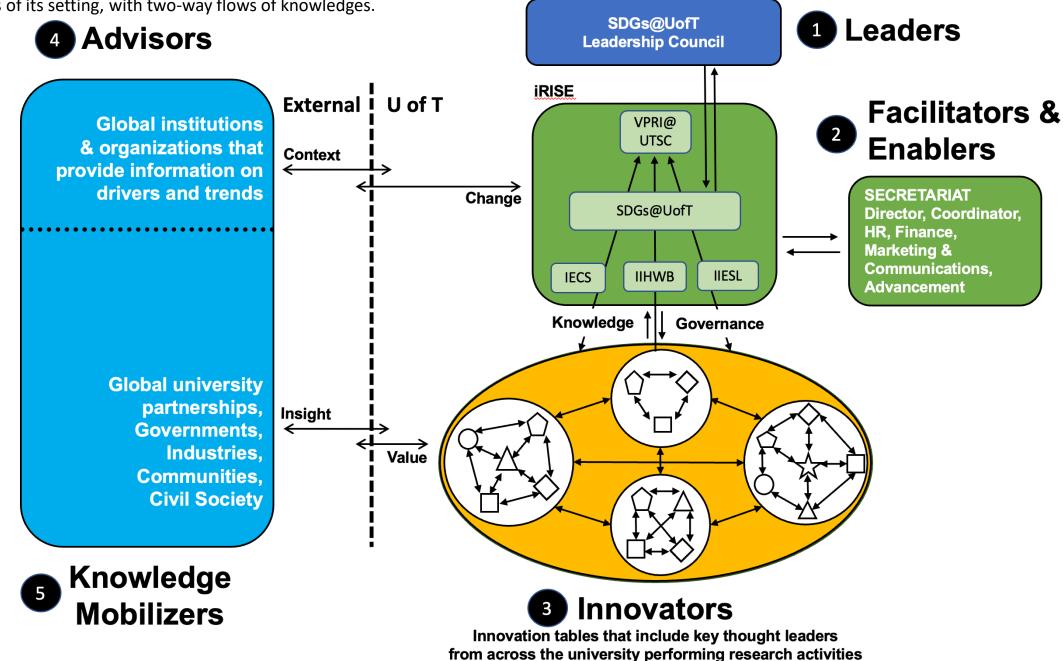
Associate Professor, Dalla Lana School of Public Health, Health and Society



The SDGs@UofT will be part of iRISE



Permeable: an "open" innovation system, that is responsive to the needs of its setting, with two-way flows of knowledges.



We are working hard to further transform UTSC.

Proposed Canada Excellence Research Chair (CERC) in Sustainability Transitions

Dr. Patricia Romero-Lankao

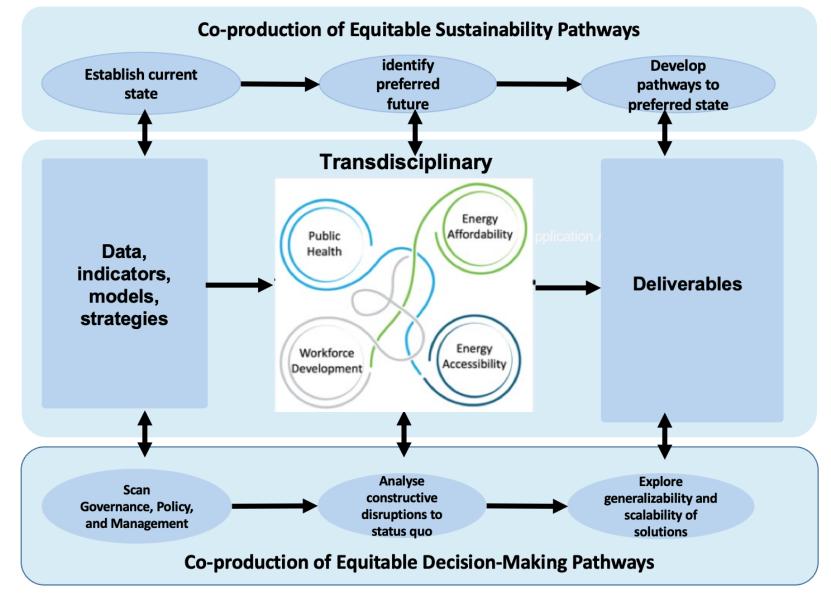


Proposed Research Program: JUSTICE: Just Urban Sustainability Transitions Centred in Equity

Paty is joining UTSC as of July 1, 2023, as a Professor in the Department of Sociology

We are working hard to further transform UTSC.

Community



We've invested in new clusters of scholarly prominence.

2022



Water Pathways Cluster Leads: Mathew Wells (Physical & Environmental Sciences) & Cosima Porteus (Biological Sciences) Funding: \$600,000



Flourish: The Arts and Social Wellness Cluster

Cluster Lead: Andrea Charise (Health & Society) Funding: \$528,440



The Centre for Environmental Research in the Anthropocene

Cluster Leads:

Marc Cadotte (Biological Sciences) & Myrna Simpson (Physical & Environmental Sciences) Funding: \$580,000



The Clinical Research and Evaluation Cluster

Cluster Leads:

Michael Best (Psychology) & Zindel Segal (Psychology) **Funding:** \$600,000



Urban Just Transitions from Scarborough to the Globe Cluster Leads:

Matthew Hoffmann (Political Science) & Laura Tozer (Physical & Environmental Sciences) **Funding:** \$590,040



Suburban Mobilities Cluster Cluster Lead: Steven Farber (Human Geography) Funding: \$600,000

CONNECTING COMMUNITIES TOWARD FOOD SOVEREIGNTY

Sustainable Farming and Food Futures Cluster

Sustainable Food and Farming Futures Cluster Cluster Leads:

Jayeeta Sharma (Historical and Cultural Studies) & Marney Isaac (Physical & Environmental Sciences, Global Development Studies) **Funding:** \$1,200,000

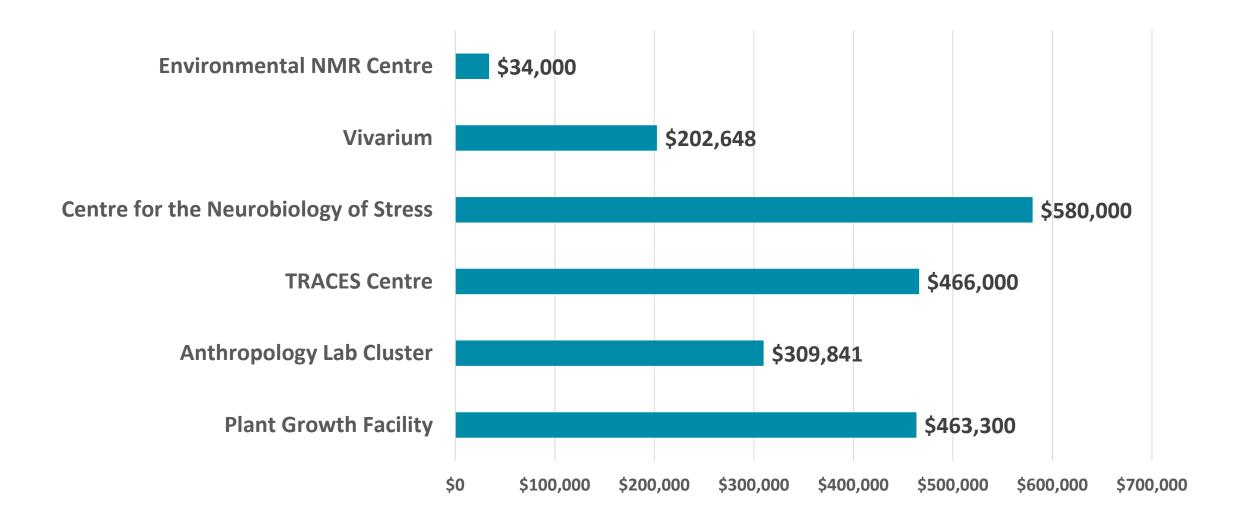
We continue to support our faculty and research community.



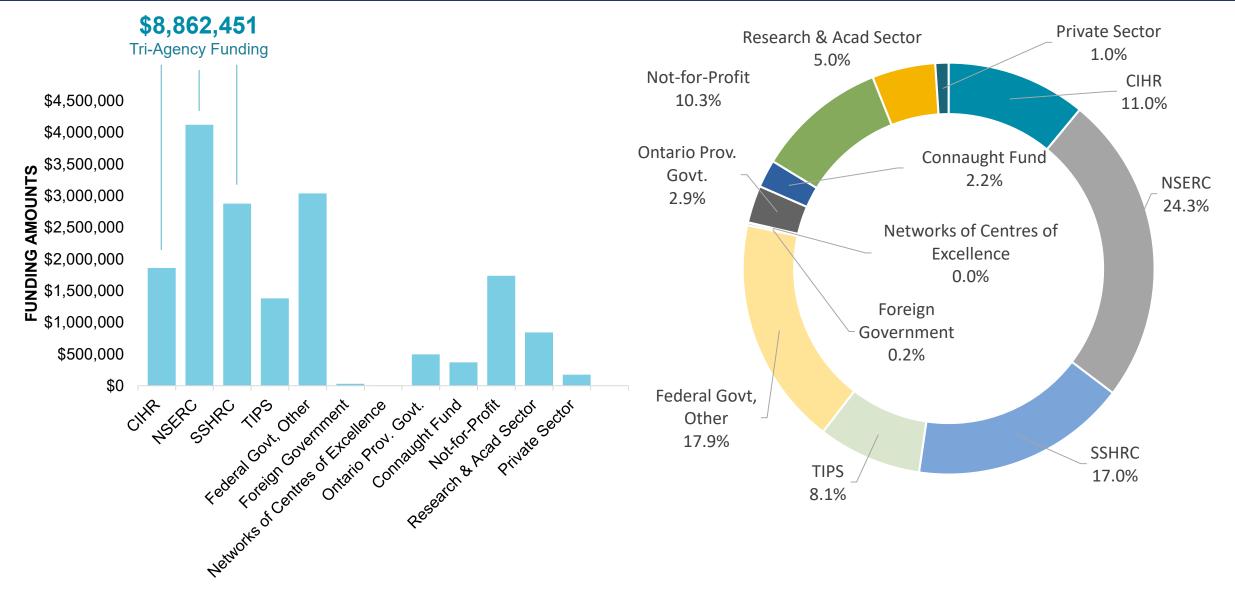
We are also supporting the creation of new UTSC Core Facilities

Intentionally place new infrastructure within core facilities and privilege new infrastructure designated for collaborative use. Consideration Incentivizing the Look to provide of the role of capital or **Creation of UTSC** training within operating core facilities in **Core Facilities** funding to UTSC dialogue with **Core Facilities.** the OVPAD. Give institutional-level profile, prominence and recognition to research/training facilities.

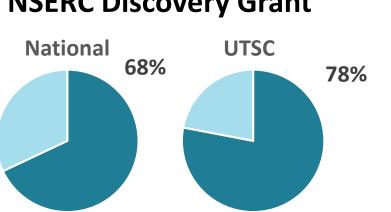
We invested over \$2M in UTSC Core Facilities to ensure our researchers had the needed infrastructure, tools, and techniques.



UTSC 2022-23 total annual research funding was \$16.9 million*, with ≈52% of it coming from Tri-Agency sources.

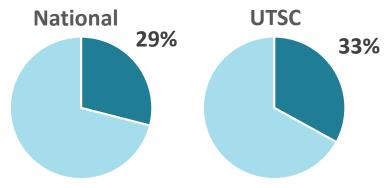


Note: 2022-23's final figures are pending upcoming competition results. Data source: VPRI Dashboards, April 2023

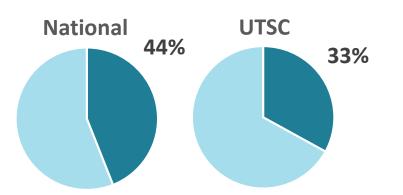


NSERC Discovery Grant

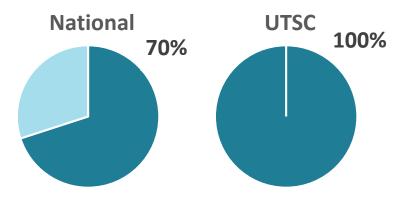




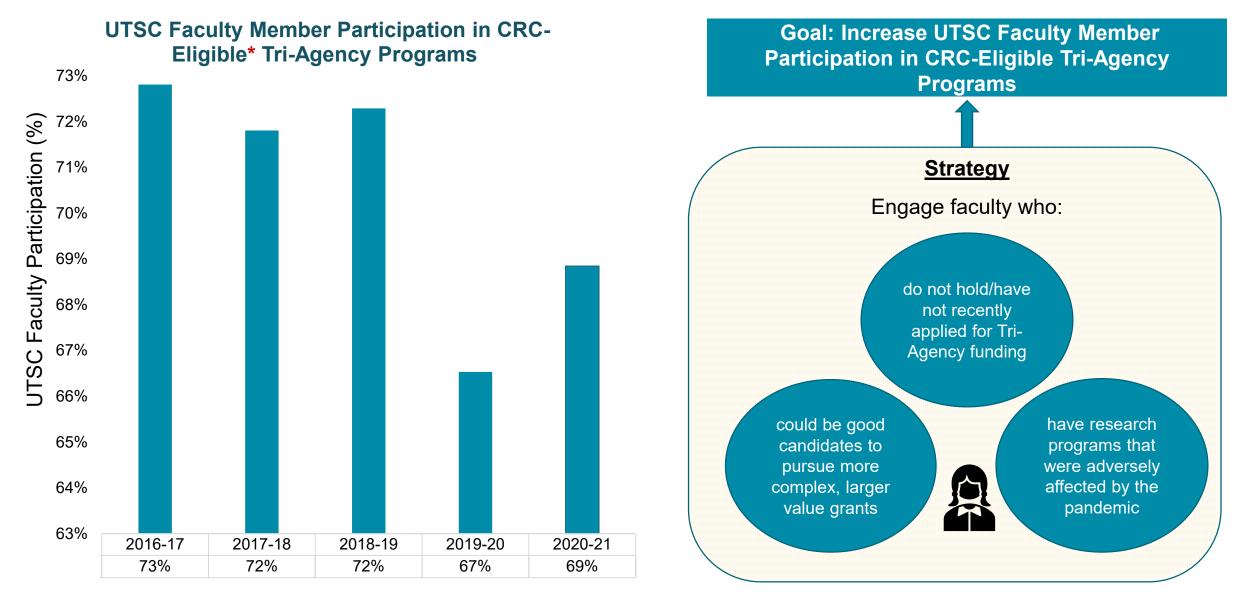
SSHRC Insight Grant



SSHRC Connection Grant



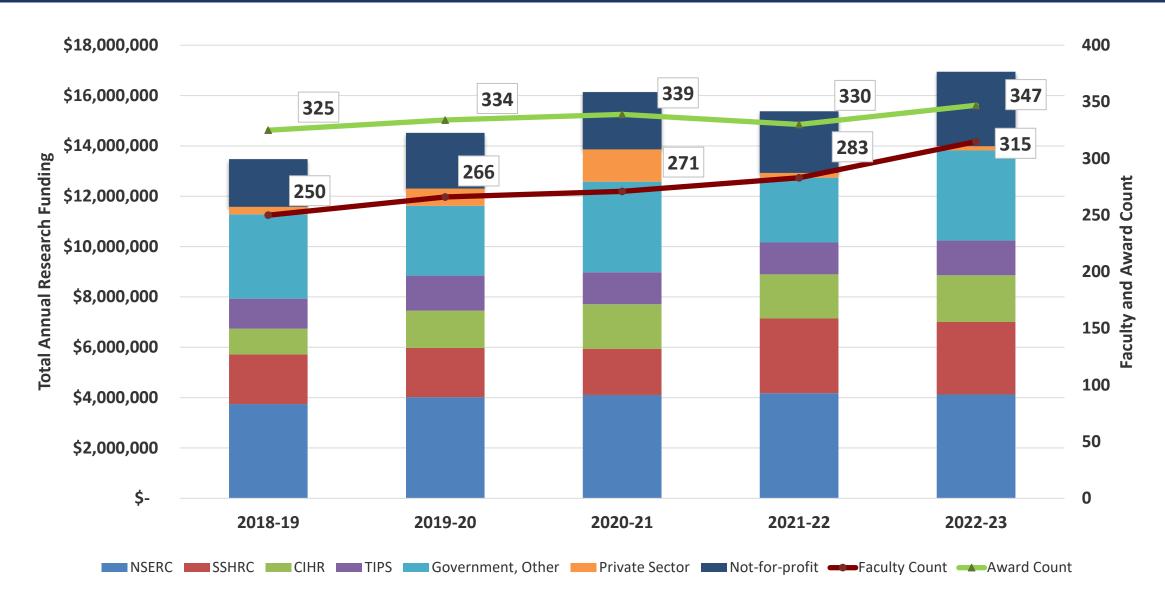
We are pursuing areas where we can reach new heights.



Note: Faculty Participation data is currently only available until 2020-21.

*CRC-ineligible Tri-Agency Programs: <u>https://www.chairs-chaires.gc.ca/program-programme/research_funding-financement_recherche-eng.aspx#exclusions</u> Data source: VPRI Dashboards, March 2023

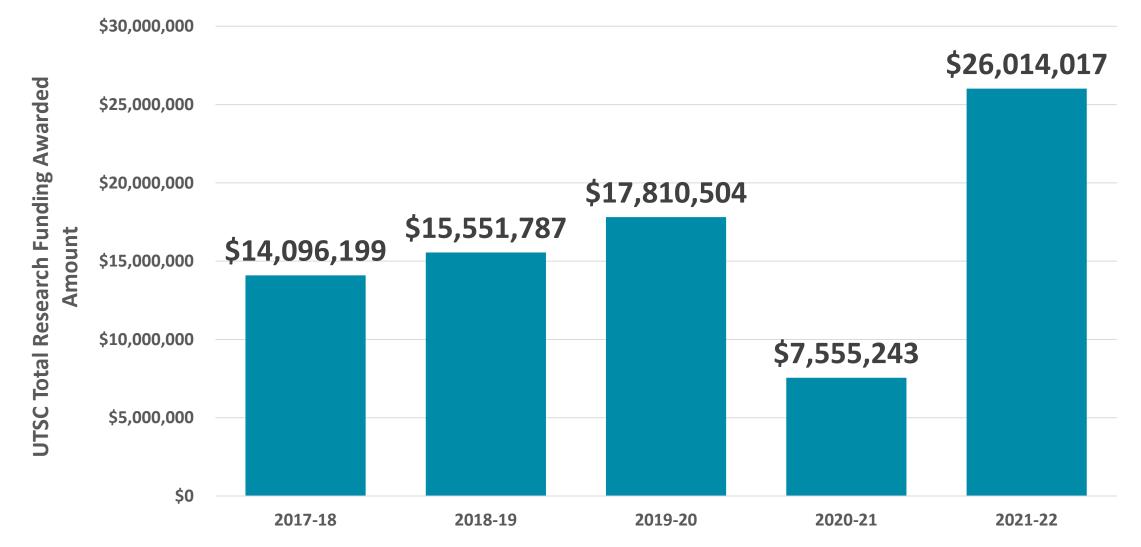
With these supports, UTSC faculty's research productivity continues to increase.



^{*: 2022-23&#}x27;s final figures are pending upcoming competition results

Data source: VPRI Dashboards, April 2023.

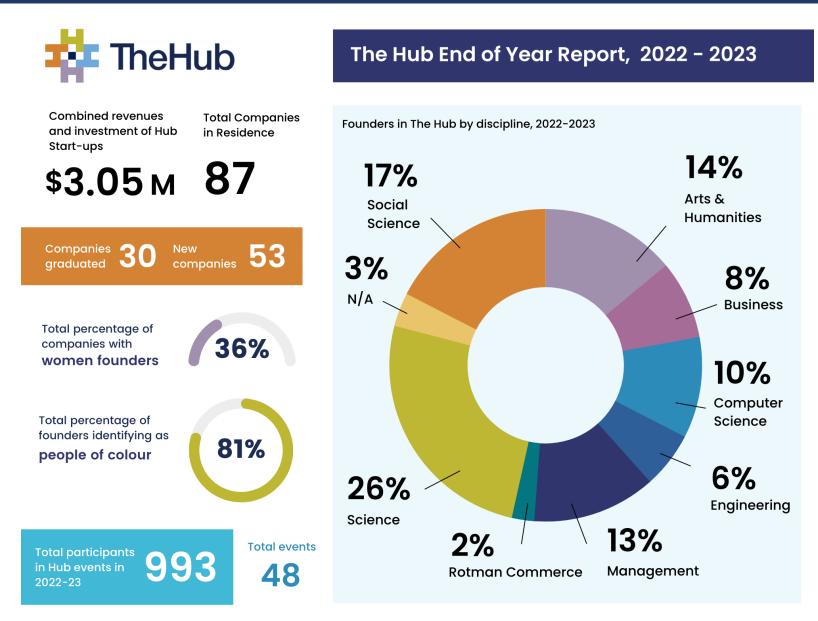
UTSC awarded research funding has reached unprecedented levels, with a 244% increase in 2021-22 from the previous year and a 85% increase since 2017-18



Note: Total Awarded Amount data is currently only available until 2021-22.

Data source: VPRI Dashboards, April 2023.

We continue to support our innovators through the campus accelerator, The Hub.



The Hub continues to stimulate the growth of trailblazers in the innovative space.



Neurokin

Maria Khandaker (top) and Shupa Rahman, co-founders of Neurokin

A one-stop information shop for marginalized neurodivergent people who identify as women, 2SLGBTQ+ and/or people of colour.



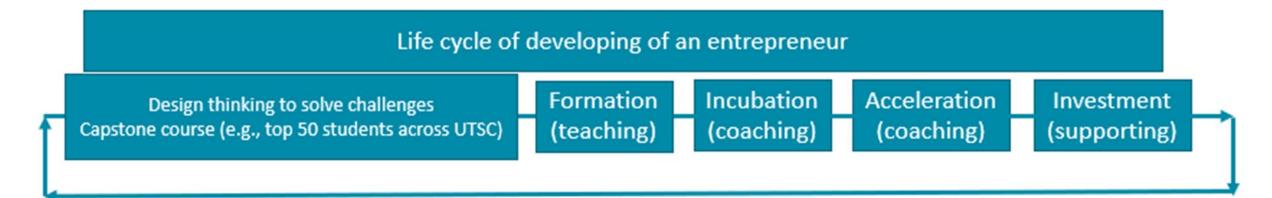
mhapy *Chijindu Ukagwu, founder of mhapy.*

The company created a chatbot named Ruby that tracks users' mental health symptoms the way nurses do

And we are working to further enhance our innovation ecosystem.

A key element of these efforts is a proposal for a new donor-funded **Centre of Inclusive Excellence in Innovation, Entrepreneurship and Leadership (CIEIEL)**

CIEIEL will be an interdisciplinary and intersectoral centre of national and global prominence for intentionally weaving together inclusive excellence in innovation, entrepreneurship and leadership that strengthens the work of our existing academic initiatives and emerging innovation ecosystem.



We are focused on building regional innovation districts, including EaRTH and HeART.











IVERSITY









We and our partners are invested in the future of work....



SWITCH: EaRTH flips the switch for cleaner automotive technologies and mobility solutions

Promoting careers in the automotive and mobility sector to high-school and postsecondary students







A R M A D

... and are supporting the development of the next generation of workers.

EaRTH SWITCH: CORRIDOR OF PROGRAMMING \$1.3M PROJECT SUPPORTED BY \$500,000 OVIN FUNDING

East TORONTO

University of Toronto, Centennial College 240 Grades 10-12 students, 200 Post-secondary students, 22 Internships

OSHAWA-PICKERING

Ontario Tech University 120 Grades 10-12 100 Postsecondary 4 Internships

PETERBOROUGH-KAWARTHA LAKES

Trent University, Fleming College 240 Grades 10-12 students, 200 Post-secondary students, 4 Internships

Publicly Engaged Scholarship & Innovation: Towards Inclusive Excellence in Research

Working paper



PESI is diverse in practice, focus and scope.



PUBLICLY-ENGAGED SCHOLARSHIP

FOUNDATION: Cultural DISCIPLINE(S): Arts & Humanities TERMINOLOGY: Public Scholar

COMMUNITY-ENGAGED SCHOLARSHIP

FOUNDATION: Community Capacity Building DISCIPLINE(S): Public Health, Extension TERMINOLOGY: Community Scholar

CIVICALLY-ENGAGED SCHOLARSHIP

FOUNDATION: Democratic, Political Participation DISCIPLINE: Education, Curricular TERMINOLOGY: Civic Scholar

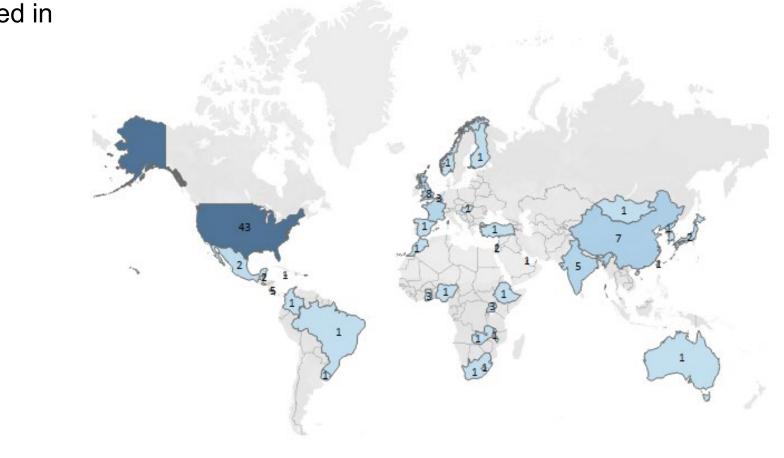
CRITICALLY-ENGAGED SCHOLARSHIP

FOUNDATION: Social Justice, Anti-Racism DISCIPLINE(S): Ethnic, Race, Legal, and Women's Studies TERMINOLOGY: Activist Scholar

Blanchard & Furco, 2021

Our faculty are engaging in more international research.

Active Awards by Country (2022-23)



- Our faculty is actively engaged in international research
- Top research locations
 - United States 43
 - Great Britain 8
 - China 7
 - Costa Rica 5
 - India 5
 - France 4
 - Belgium 3
 - Ghana 3
 - Uganda 3
 - Belize 2

We continued our Celebration of Research Excellence Lecture Series.



Mark Campbell Arts, Culture and Media



Andrea Charise Health & Society



Artur Izmaylov Physical & Environmental Sciences



Scott Maclvor Biological Sciences



Alan Saks Management



Jessica Wilson Philosophy

We awarded our high-performing faculty.

UTSC Principal's Research Award



Mark Schmuckler Psychology

UTSC Research Recognition Award



Cendri Hutcherson Psychology

UTSC Pre-Tenure Faculty Research Awards



Cassandra Hartblay Health and Society



Sara Saljoughi English

Christina Guzzo Biological Sciences



Oleksandr Voznyy Physical & Environmental Sciences

UTSC Research Excellence Faculty Scholars



Patrick McGowan **Biological Sciences**



Physical & Environmental Sciences

And we celebrated faculty that received prestigious national and international recognitions.



Notisha Massaquoi Department of Health & Society

2023 YWCA Toronto Women of Distinction Award for fighting inequities in health-care

Notisha is a community-based researcher utilizing mixed methods to interrogate anti-Black racism and highlight the experiences of Black communities navigating institutional structures and systems in Canada, with a primary focus on the social determinants of health and health disparities.



Wisdom Tettey Principal UTSC, Department of Political Science African Scholars Award Distinguished Influencers Award

Maydianne Andrade Department of Biological Sciences African Scholars Award Distinguished African-Caribbean Award



Ashton Anderson Department of Computer and Mathematical Sciences

CS-CAN-INFO-CAN Outstanding Career Computer Science Research Prize

Anderson's research in computational social science focuses on a range of questions at the intersection of artificial intelligence, data and society. He has pioneered computational methods to quantify online phenomena including political polarization and has developed human-centered machine learning systems.



Alex Voznny Department of Physical and Environmental Sciences

Chemical Institute of Canada 2023 Strem Award

Alex has made significant contributions to the understanding of colloidal nanocrystals, which are tiny (nanometer-sized) inorganic particles. Due to their properties, these artificially grown particles are particularly useful in LEDs, solar cells and certain types of lasers, among other applications.



Myrna Simpson Department of Physical and Environmental Sciences

Geochemical Society Clair C. Patterson Award

Myrna's lab used a series of innovative techniques including nuclear magnetic resonance (NMR) and mass spectrometry to address knowledge gaps related to global environmental change, pollution of the environment and long-term storage of used nuclear fuel.



Aisha Ahmed Department of Political Science

Royal Society of Canada College of New Scholars, Artists and Scientists

Aisha's scholarly research and advisory work with governments and international actors has focused on the intersection of Islamists and economies. She was named one of Toronto's most inspiring women in 2017 by Post City Magazine and won Muslim Woman of the Year at the Muslim Awards of Excellence MAX Gala a year later. She also spent three years as chair of the board of Women in International Security Canada and acts as director of the Islam and global affairs initiative at the Munk School of Global Affairs.



Diana Valencia Department of Physical and Environmental Sciences

Guggenheim Fellowship

Diana's research focuses on the interior of planets, its composition and how it evolves – including ways in which it might enable the emergence of life. She was one of the first scientists to combine geophysics and astrophysics to study exoplanets. Her pioneering work includes developing the first interior model and first mass-radius relationship for rocky exoplanets (1-10 Earth masses). Her exploration into the possibility of plate tectonics on super-Earths spurred a lively debate in the field that continues today.

As we look forward to the next year, we have selected the following strategic priorities to further advance the research vision and mission of the campus.



Launch the Centre for Inclusive Excellence in Innovation, Entrepreneurship and Leadership



Create & operationalize a new innovation lifecycle website that provides a "one-stop shop" for fundamental information related to the innovation enterprise



Develop a plan to have a United Nations University node located at UTSC



Complete the optimization of the OVPRI to fulfil its mandate and facilitate the realization of the strategic objectives contained in *Inspiring Inclusive Excellence*



Complete a space audit to and develop a plan to support the needs of UTSC



Complete the development of a strategic research plan that emboldens our research strengths, maximizes our impact, supports campus sustainability, and uplifts black & Indigenous scholars