2015 ANNUAL REPORT RESEARCH & INNOVATION IMPACT

2015.research.utoronto.ca



RESEARCH & INNOVATION LEADERSHIP

- Performance & Reputation Across a Breadth of Disciplines
- Award-winning Researchers & Innovators
- Research & Innovation Funding
- Innovation & Startup Powerhouse

WORLD-LEADING RESEARCH AND INNOVATION

20%
of Canada's
most
influential
scientific
minds

in the world for highly cited papers

38th most innovative university in the world

EXCEPTIONAL PERFORMANCE

2015 RANKINGS	WORLD	CANADA
NATIONAL TAIWAN UNIVERSITY	3	1
U.S. NEWS BEST GLOBAL UNIVERSITIES (2016)	16	1
TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS	19	1
ACADEMIC RANKING OF WORLD UNIVERSITIES	25	1
QS WORLD UNIVERSITY RANKING	34	2



TOP 50 UNIVERSITY ACROSS MAJOR FIELDS

Q	S	Sha	nghai	TH	IE .	NT	NTU	
Life Sciences & Medicine		Eng & Computer Science		Clinical, Pre-Clinical & Health		Clinical Medicine		
12	1	23	1	11	1	3	1	
Arts & Humanities		Clinical Med & Pharmacy		Arts & Humanities		Life Sciences		
22	1	28	1	14	1	7	1	
Natural S	Natural Sciences Social Sciences		Sciences	Life Sciences		Social Sciences		
31	1	29	1	17	1	10	1	
Social Sciences & Natural Sciences & Mat		ences & Math	Social Sciences		Natural Sciences			
41	1	37	1	19	1	28	1	
			gricultural ences	Physical Sciences		Engineering		
49	1	38	2	20	1	39	1	
				Eng & Tech		Agricu	ılture	
				25	1	39	3	

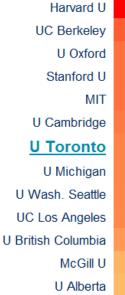


HIGHLY INFLUENTIAL & HIGHLY CITED

U of T ranks among the **top 10**

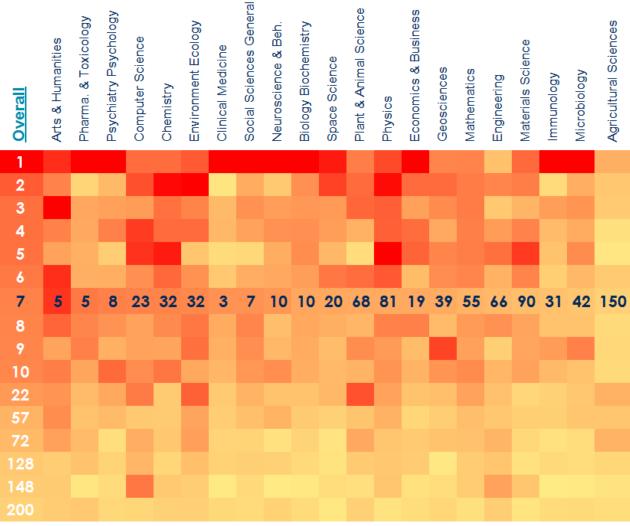
most influential

universities in the world.



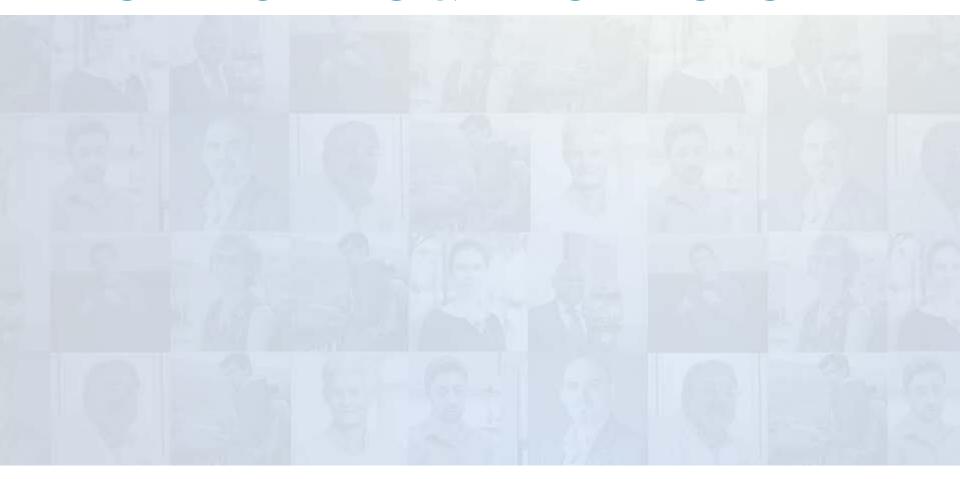
U Montreal
U Waterloo

U Calgary

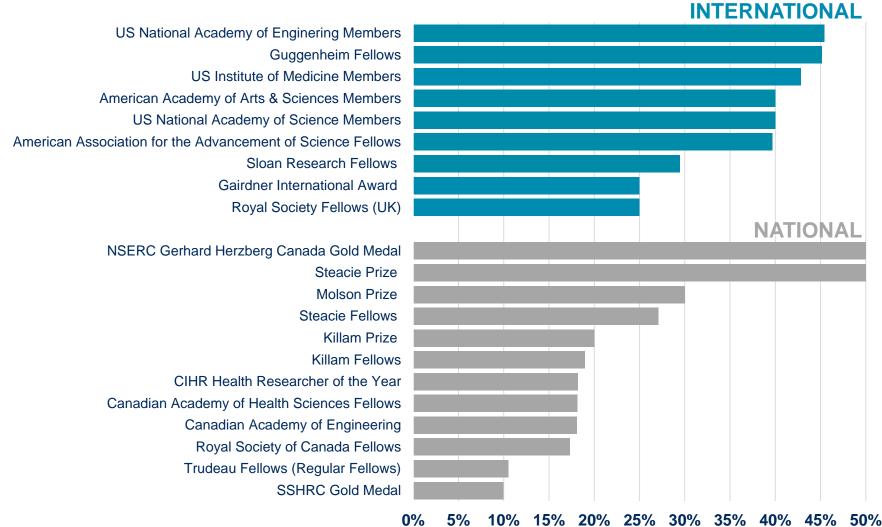




AWARD-WINNING RESEARCHERS & INNOVATORS



Although U of T accounts for only 7% of Canada's professorial faculty, they have secured a dominant share of prestigious honours.







STEPHEN COOKBBVA Frontiers of
Knowledge Award



VITO FORTE

Manning Innovation

Award



KEREN RICE
Pierre Chauveau
Medal



ANEIL AGRAWAL
Steacie Prize

AWARDWINNERS



17 more Canada Research Chairs for a total of <u>255</u>

largest number of any university in Canada and 82 more than the next university



ELODIE PASSEPORT
Environmental Engineering
and Stable Isotopes



DANIEL BENDER
Cultural History and
Analysis



PATRICK GUNNING
Medicinal Chemistry



RESEARCH & INNOVATION FUNDING

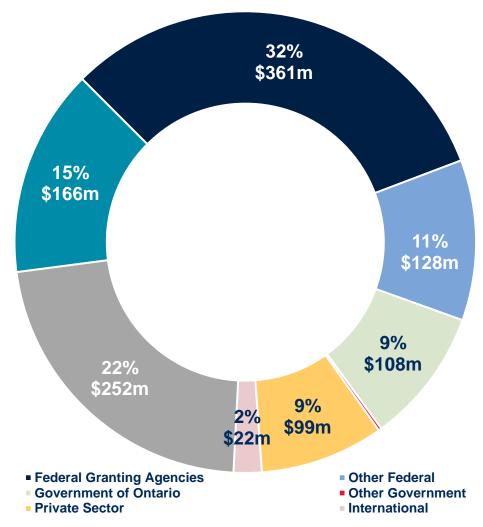


RESEARCH FUNDING

In 2014-15, the total value of research funds awarded to investigators at U of T was \$410 million.

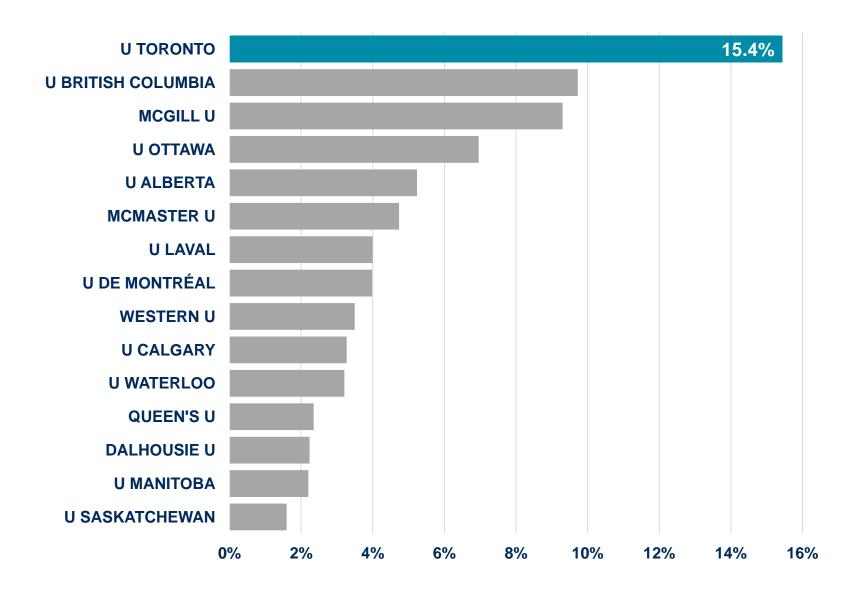
When combined with funding awarded to our partner hospitals, the total was

\$1.1 billion.





TRI-AGENCY FUNDING SHARES





BUILDING ON EXCELLENCE IN REGENERATIVE MEDICINE

MEDICINE BY DESIGN

\$114M investment from Canada First Research Excellence Fund

CENTRE FOR ADVANCED THERAPEUTIC CELL TECHNOLOGIES

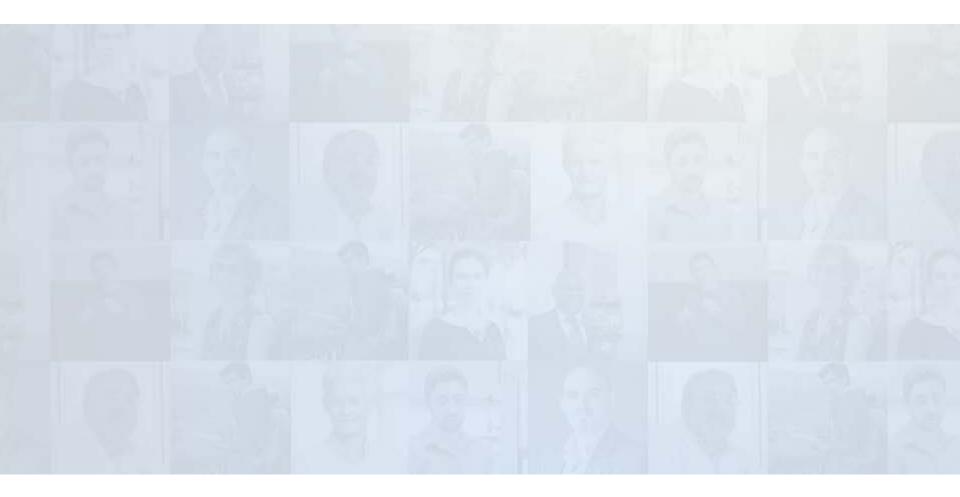
\$20M from Advanced Manufacturing Fund

THE TED ROGERS CENTRE FOR HEART RESEARCH

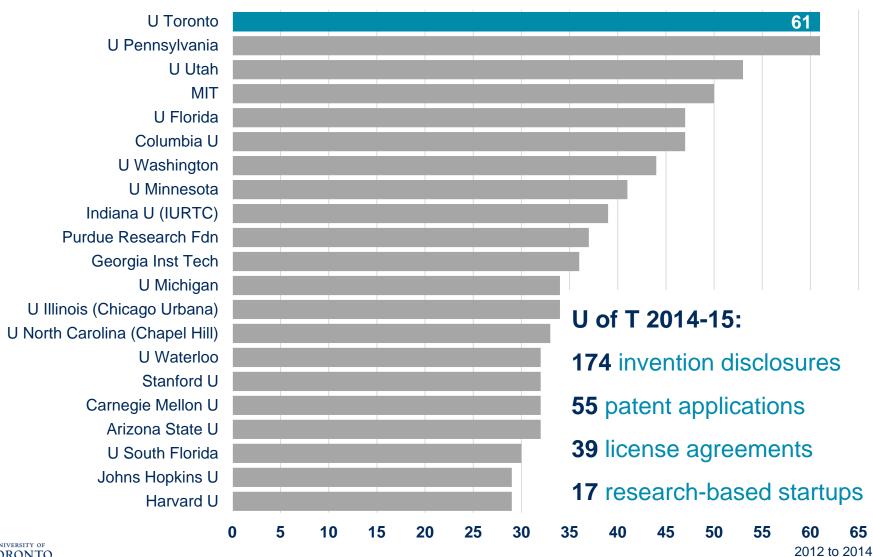
Improving heart health across the lifespan, from childhood to adulthood



AN INNOVATION & STARTUP POWERHOUSE



U of T is a North American leader in the number of new research-based start-ups.





STARTUPS @ TORONTO



NAMED "LIFE SCIENCES COMPANY OF THE YEAR" BY LSO



KANG LEE
CHANGING HOW WE DETECT EMOTION

OTI Lumionics

MICHAEL HELANDER AWARDED \$5.7M FROM SDTC



BANTING & BEST CENTRE FOR INNOVATION & ENTREPRENEURSHIP (BBCIE)

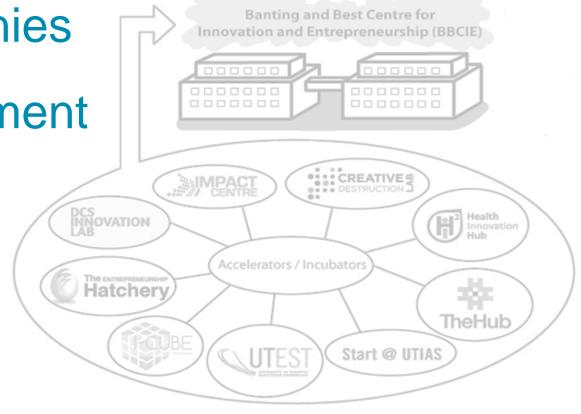
225 student-led startup teams

90 new companies

\$19M in investment

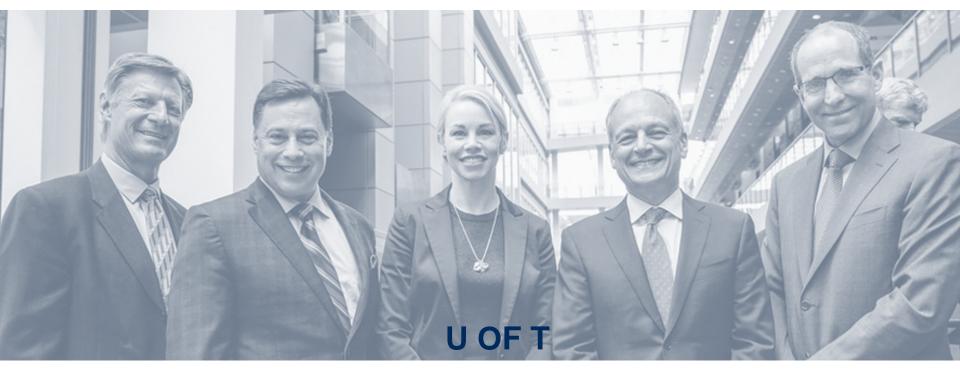
\$2.5M in sales

in 2014-15.





JLABS @ TORONTO



GOVERNMENT OF ONTARIO MARS DISCOVERY DISTRICT JOHNSON & JOHNSON INNOVATION

first JLABS incubator in Canada and the first outside the U.S.



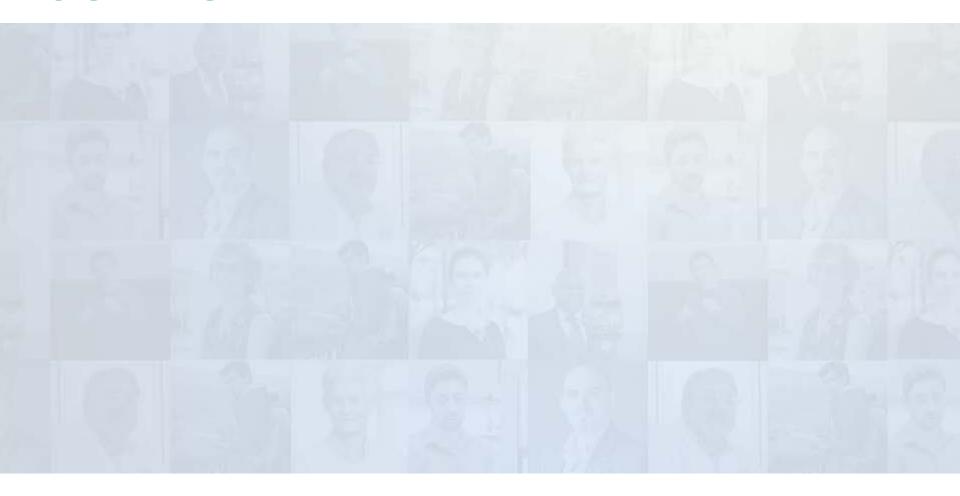
THREE PRIORITIES

Reimaging Undergraduate Education

Leveraging Our Urban Location

International Impact

SERVING THE U OF T COMMUNITY



EACH YEAR...

RESEARCH **FUNDING**

2,800 principal investigators

900+

sponsors including

3,500

new funding applications

300+

private sector partners

\$400M

in funding awarded

1,700 funding

programs

9,000

research funds

INNOVATION & ENTREPRENEURSHIP

150 invention disclosures

225

student-led startup entrepreneurial teams

new startup companies

50

priority patent applications

100+

events

in startup investment 40

licensing agreements

12,000+

youth attendees

\$2.5M

in startup sales

250

commercialization projects

volunteer mentors

ACCOUNTABILITY & REPORTING

external audits

7,000 financial reports

new human ethics protocols

550 new animal ethics protocols

75 post-approval laboratory visits



ACCOUNTABILITY AND REPORTING

External Audits

Auditor General of the Ontario: Audit of University Intellectual Property

Tri-Council Agencies (NSERC, SSHRC and CIHR): Monitoring Visit

Canada Foundation for Innovation: Monitoring Visit

Strengthening the Administration of Research

VPRI education program





OPERATIONAL IMPROVEMENTS

The VPRI supports research and innovation across U of T and with our partner hospitals through:

My Research –
Applications (MRA)
Launched in 2014

My Research –
Animal Protocols
(MRAP)
In development

4,000+ current users

Calendaring Tool
In development

My Research-Human Protocols (MRHP) In development 1,500 new users estimated in 2016

My Research – Documents
In development

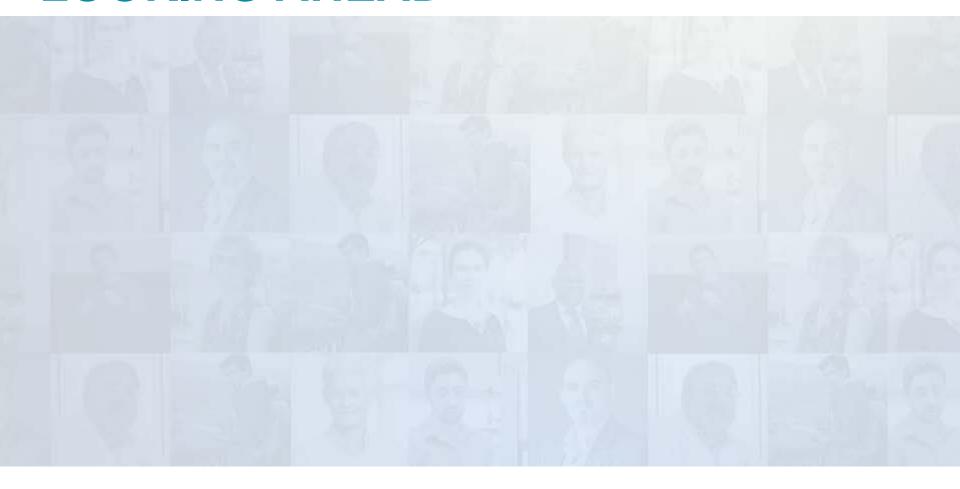
My Research –
Intellectual
Properties (MRIP)
In development

Student users

\$520,000 annual savings



LOOKING AHEAD



Provide input to federal research funding and structural reviews that will shape research and innovation policy.

Develop a new University Strategic Research Plan.

Facilitate and support collaborative research opportunities that are multi-divisional and multi-institutional.

Support development of a regional innovation corridor that captures key academic institutions and ONRamp, a 15,000 square-foot collaborative networking space in the BBCIE that will provide space for student startups.

Emphasize social innovation and entrepreneurship and expand engagement of humanities and social science students.



We will also continue to look for ways to improve the flow of information and strengthen research communications, including revamping the VPRI website to make it more user-friendly and better serve both our internal and external communities.





UNIVERSITY OF TORONTO