

Excellence, Innovation, Leadership
RESEARCH AT THE UNIVERSITY OF TORONTO

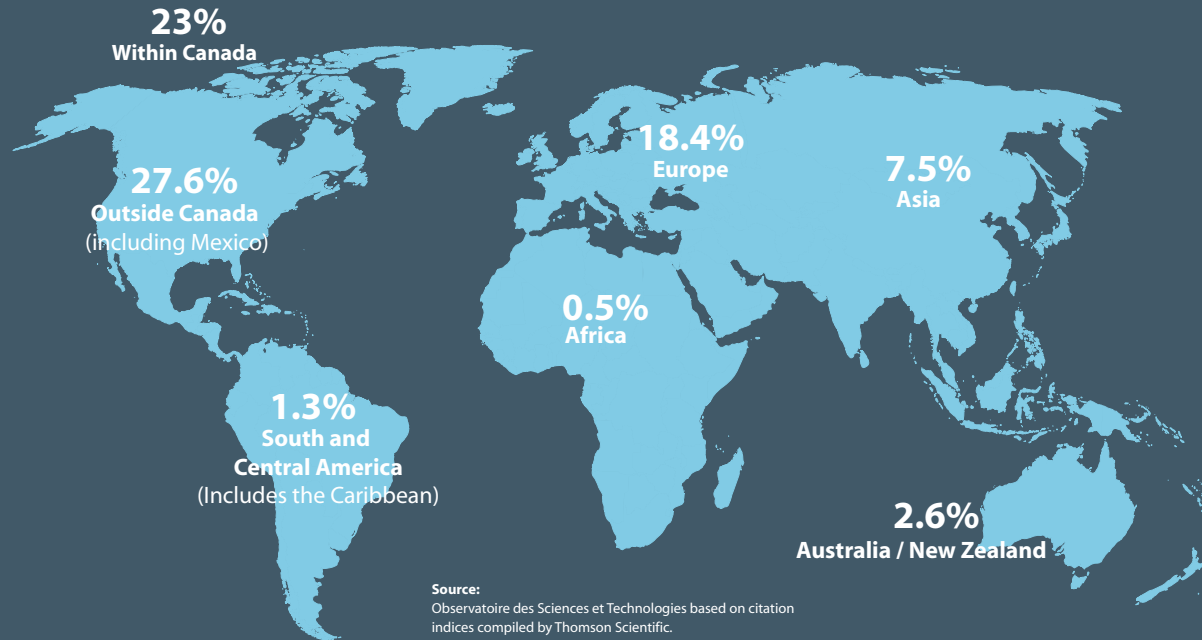


Global Reach

43% of U of T research involves collaboration with researchers outside of Canada – a number that has increased steadily and has kept well ahead of other Canadian universities.

Global Reach of Research

Proportion of Research Paper Co-Authorship by Continent, University of Toronto and Partner Hospitals

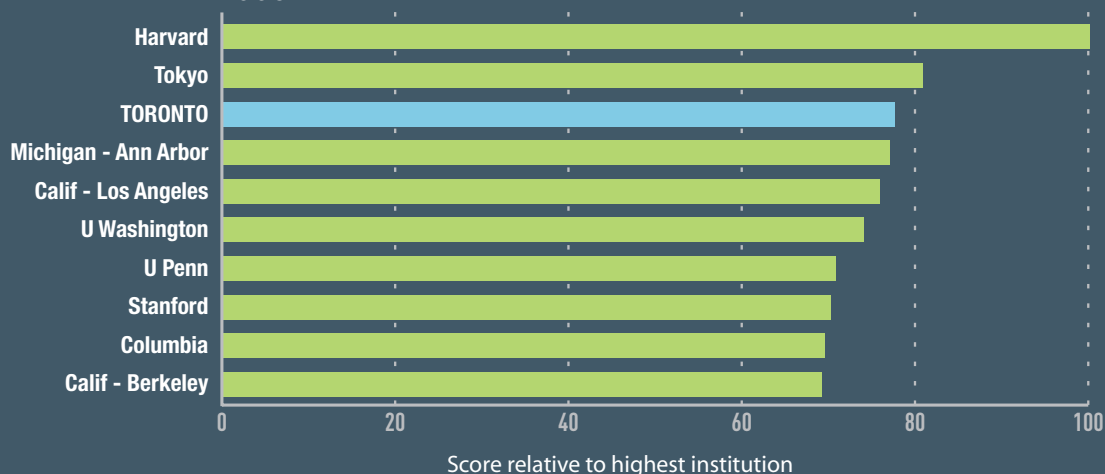


Productivity

U of T researchers publish more than all but two other universities in the world.

Publication Score

2006



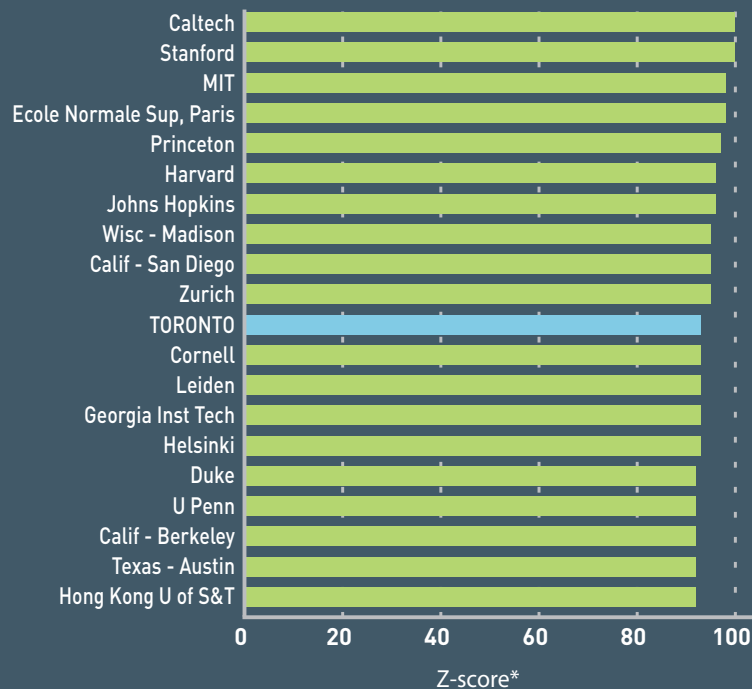
Source: Academic Rankings of World Universities 2007, Institute of Higher Education, Shanghai Jiao Tong University

Impact

Our researchers are among the most highly-cited in the world.

Citations per Faculty

2002-2006

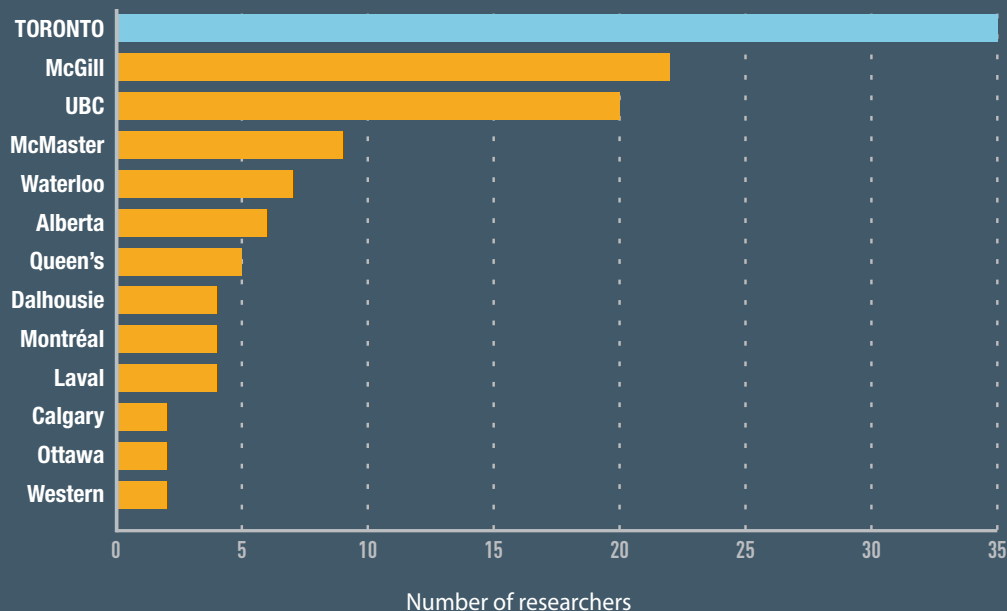


Source:
World University Rankings,
Times Higher Education
Supplement, November 9, 2007

*A standardized score used to
measure citations

U of T has the highest number of ISI Highly-Cited Researchers in Canada – one of the best indicators of research influence.

ISI Highly-Cited Researchers Distribution Among Canadian G13 Universities



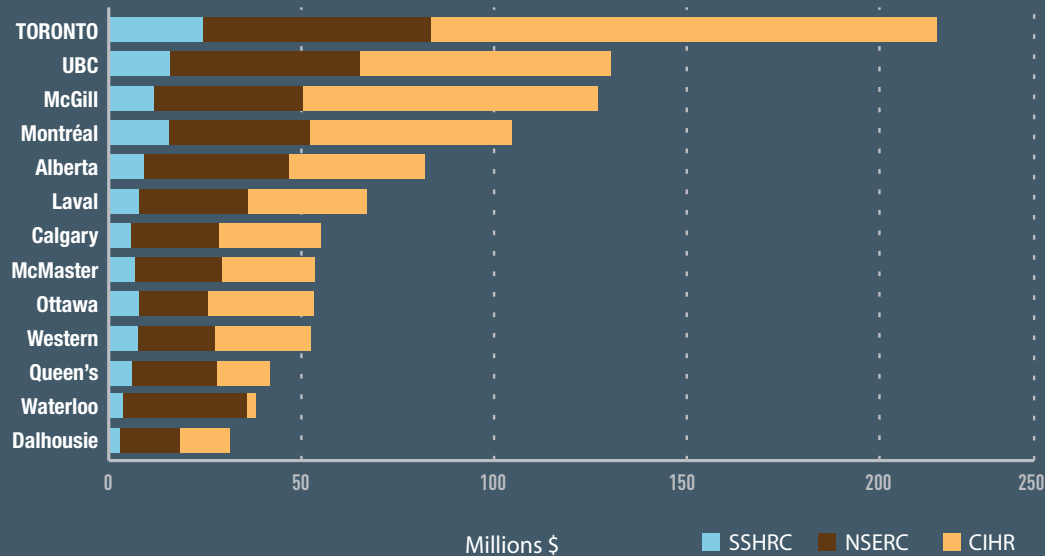
Source:
<http://isihighlycited.com>
May 2007

Federal Funding

U of T consistently leads all other Canadian universities in investment from federal granting agencies.

Federal Research Council Payments Canadian G13 Universities

2005-06

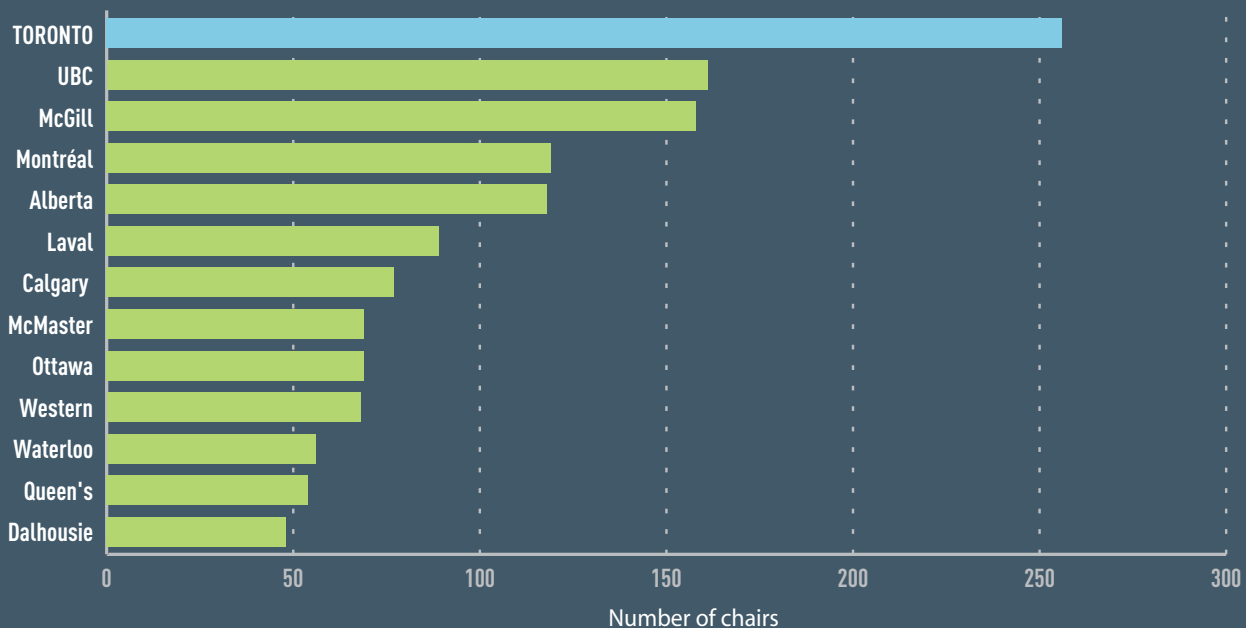


Figures include funding to partner institutions. Figures exclude funding for the Networks of Centres of Excellence, the Canada Research Chairs program, and the Indirect Costs program.

Source: Councils' statistical tables.

Canada Research Chairs Allocations Canadian G13 Universities

2007

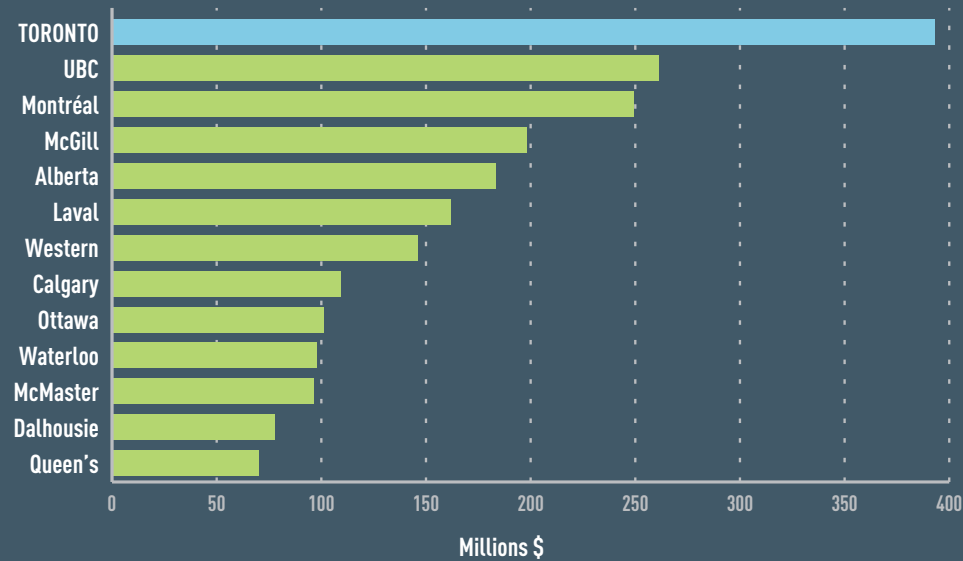


Source: CRC Program website www.chairs.gc.ca, September 2007

Federal Funding

Canada Foundation for Innovation Canadian G13 Universities

From Inception (1998) to September 2007



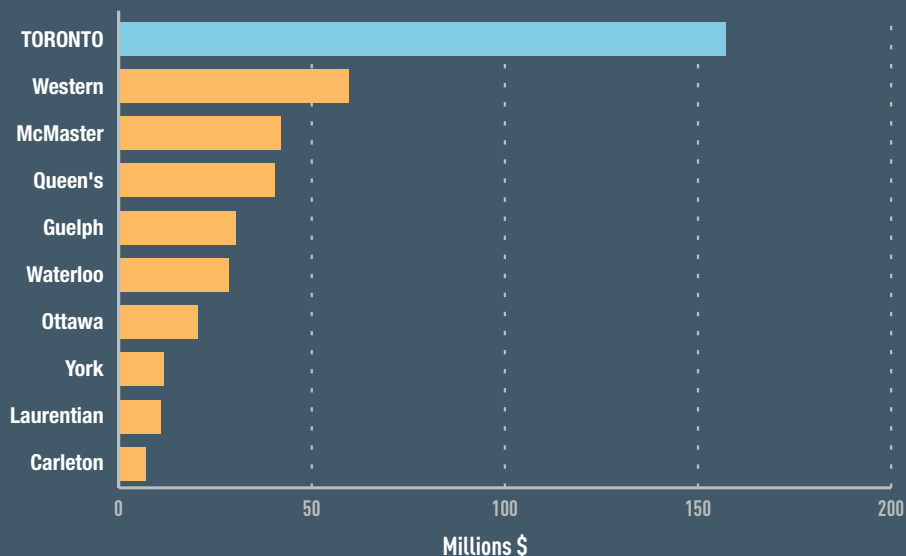
Source:
CFI website September 2007;
national projects excluded;
partners counted with
each university

Provincial Funding

U of T, with its partner hospitals, leads all Ontario universities in funding from the Ministry of Research and Innovation.

Ontario Ministry of Research and Innovation Main Competitive Programs Since Inception

Top Ten Universities (with affiliates)



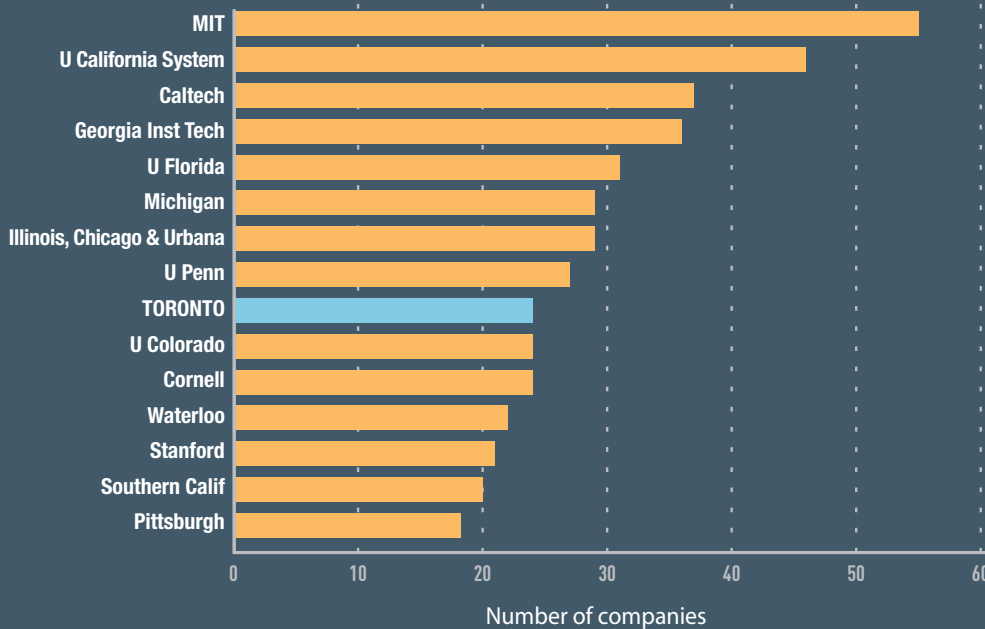
Main competitive programs results as per MRI January 10, 2008: Early Researcher Award, Ontario Research Fund (Research Excellence Award and Research Infrastructure Award), Premier's Discovery Award, Premier's Summit Award, Postdoctoral Fellowship Award, Ontario Research Chair.

Innovation

U of T is among North America's leaders in creating spin-off companies.

New Spin-off Companies (2003-2005)

U.S. and Canadian Universities



Notes:

Source: Published AUTM Survey FY 2005, 2004, and 2003. Data received directly from partner hospitals for Toronto if not reporting to AUTM.

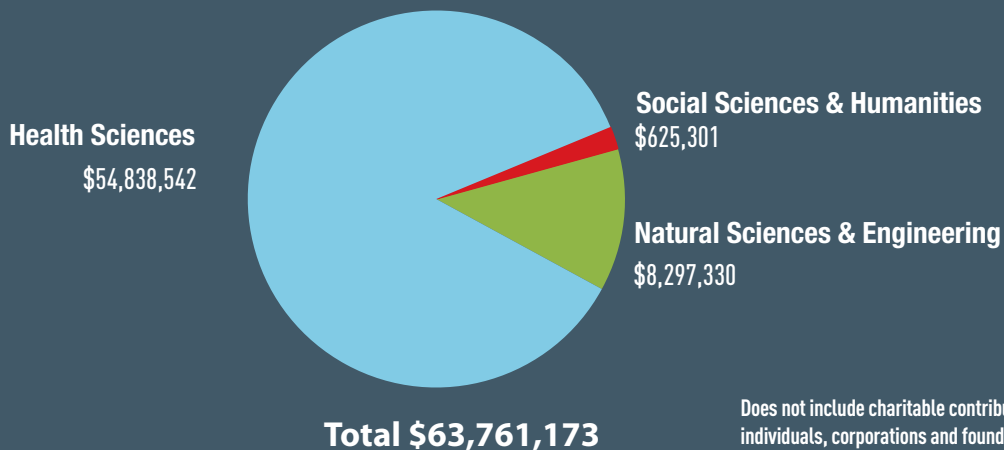
Partner hospitals counts are reported with each university.

Industry Partners

Our partners in industry invest in research across all disciplines.

Research Sponsorship by Industry

U of T and Partner Hospitals (2005-06)



Does not include charitable contributions from individuals, corporations and foundations

Hospital Partners

The combination of U of T and the 10 partner hospitals affiliated with the university creates one of the world's largest and most innovative health research forces. More than 1,600 researchers and 3,000 graduate students and post-doctoral fellows pursue the next vital steps in every area of health research imaginable. This community of scholars enables our students to learn from, and collaborate with, world-renowned leaders and experts. And the global community benefits from a stunning array of new developments, findings and inventions.



Connaught Fund Investment

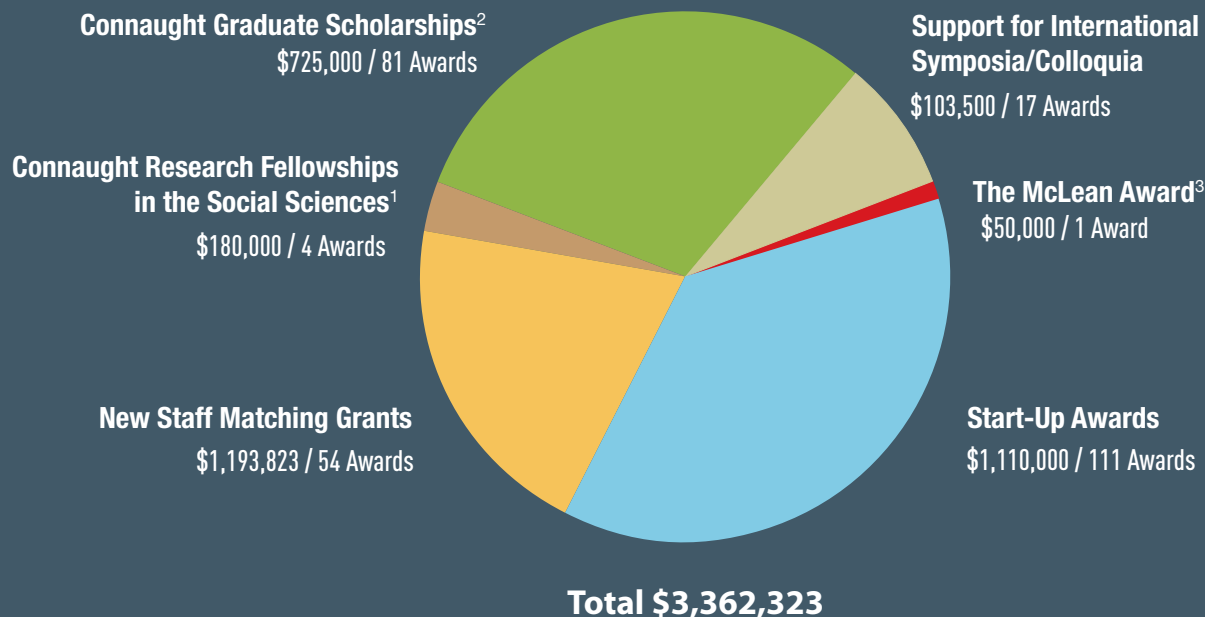
The Connaught Fund originated from the sale of U of T's Connaught Laboratories in 1972 for approximately \$29 million. Since then, the University has grown the fund to become the largest of its kind in Canada. Using Connaught funds, we have invested more than \$100 million in U of T scholars and their research through a variety of programs:

- Connaught Graduate Scholarships support top international students
- The Start-Up grant program helps defray the cost of initiating research for new tenure-stream or tenured faculty
- The New Staff Matching program assists junior scholars with grants of up to \$30,000
- The International Symposia/Colloquia program aims to advance knowledge in matters of public interest and raise U of T's international profile
- Research Fellowships enable scholars to work full-time on their research
- Each year, \$50,000 is matched to create the \$100,000 McLean Award. It provides one faculty member in the basic physical sciences or engineering with the means to attract and support graduate students and post-doctoral fellows

The Connaught Committee also oversees the Mary Gertrude l'Anson Fund, which is dedicated to research in the medical sciences. It is currently valued at \$3.2 million.

Connaught Fund Direct Contributions to Research

2006-07



1. In addition to the Social Science Fellowships, four Chancellor Jackman Fellowships in the Humanities were supported by a combination of the Jackman and Connaught Funds.

2. The 81 Scholarships comprise 26 new and 55 continuing awards.

3. \$50,000 matching funding is contributed from the McLean Endowment to enable an award of \$100,000.

Faculty Honours

Selected Honours and Awards in the past five years

INTERNATIONAL AWARDS AND HONOURS

AMERICAN ACADEMY OF ARTS AND SCIENCES

Foreign Honorary Members

Recognizes outstanding intellectual achievement, leadership and creativity in all fields.

2005

Richard Borshay Lee, Anthropology

Tak Mak, Medical Biophysics

Janice Gross Stein, Political Science

2004

Anthony J. Pawson, Molecular Genetics

2003

James G. Arthur, Mathematics

J. Richard Bond, Canadian Institute for Theoretical Astrophysics

Geoffrey E. Hinton, Computer Science

Linda Hutcheon, Centre for Comparative Literature

Janet Rossant, Molecular Genetics

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS)

Fellows are recognized by their peers for efforts to advance science.

Cristina Amon, Faculty of Applied Science and Engineering

Harold Atwood, Physiology

James Donaldson, Physical and Environmental Sciences, UTSC

Donald A. S. Fraser, Statistics

Barbara Lee Keyfitz, Mathematics

Ronald H. Kluger, Chemistry

Linda Kohn, Botany, UTM

Ping Lee, Pharmacy

Howard D. Lipshitz, Molecular Genetics

Albert E. Litherland, Physics

Susan McCahan, Mechanical and Industrial Engineering

Morris Moscovitch, Psychology

K. Sandy Pang, Pharmacy

John R. Percy, Astronomy, UTM

Nancy M. Reid, Statistics

Robert Reisz, Biology, UTM

Keren Rice, Linguistics

Janet Rossant, Molecular Genetics

John W. Sender, Mechanical and Industrial Engineering

Sara L. Shettleworth, Psychology

Donald Stuss, Medicine

Thomas T. Tidwell, Chemistry, UTSC

Peter Zandstra, Institute of Biomaterials and Biomedical Engineering

Jean Zu, Mechanical and Industrial Engineering

THE GAIRDNER FOUNDATION Gairdner International Award

Recognizes medical research scientists for outstanding discoveries or contributions.

2005

Endel Tulving, Psychology

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

Provides fellowships across the disciplines for advanced professionals who have demonstrated exceptional accomplishment.

2007

Michael Goldstein, Mathematics

Jerry Mitrovica, Physics

Peter Zandstra, Institute of Biomaterials and Biomedical Engineering

2006

Thomas Hurka, Philosophy

2005

Alexander R. Jones, Institute for the History and Philosophy of Science and Technology

2004

David Zingg, Aerospace Studies

2003

Lynne Viola, History

ISI HIGHLY-CITED RESEARCHERS

The ISI rankings represent 250 of the most highly-cited researchers over the last 20 years in the articles indexed by the Institute for Scientific Information (ISI) in 21 categories.

Biology and Biochemistry

Sergio Grinstein, Biochemistry

David H. MacLennan, Banting and Best Department of Medical Research

Chemistry

Lewis Edward Kay, Molecular Genetics

Mitchell A. Winnik, Chemistry

Computer Science

Radford M. Neal, Statistics and Computer Science

Subbarayan Pasupathy, Electrical and Computer Engineering

Charles Rackoff, Mathematical and Computational Sciences, UTM

Kenneth C. Sevcik, Computer Science

Ecology/Environment

Peter A. Abrams, Ecology and Evolutionary Biology

Wan-Ying Shiu, Centre for Environment

Engineering

Bruce Allen Francis, Electrical and Computer Engineering

Geosciences

W. Richard Peltier, Physics

Immunology

Pamela Ohashi, Immunology

Immunology, Molecular Biology and Genetics

Tak Mak, Medical Biophysics

Materials Science

Karl T. Aust, Materials Science and Engineering

Neil Coombs, Materials Science and Engineering

Geoffrey A. Ozin, Chemistry

Mathematics

Nancy Reid, Statistics

Mathematics and Engineering

W. M. Wonham, Electrical and Computer Engineering

Molecular Biology and Genetics

Anthony J. Pawson, Molecular Genetics

Johanna M. Rommens, Molecular Genetics

Janet Rossant, Molecular Genetics

Jeffrey L. Wrana, Molecular Genetics

Pharmacology

Werner Kalow, Pharmacology

Philip Seeman, Pharmacology

Edward M. Sellers, Pharmacology

Plant and Animal Science

Stephen S. Tobe, Cell and Systems Biology

Psychology/Psychiatry

R. Michael Bagby, Psychiatry

Paul E. Garfinkel, Psychiatry

Janet Polivy, Psychology, UTM

Endel Tulving, Psychology

Social Sciences

Keith E. Stanovich, Human Development and Applied Psychology, OISE/UT

Space Sciences

J. Richard Bond, Canadian Institute for Theoretical Astrophysics

Raymond G. Carlberg, Astronomy and Astrophysics

Howard K.C. Yee, Astronomy and Astrophysics

LASKER FOUNDATION

Albert Lasker Award For Basic Medical Research

2005

Ernest McCulloch and James Till, Medical Biophysics

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

World's Top 35 Innovators Under the Age of 35

2005

Parham Aarabi, Electrical and Computer Engineering

Aaron Hertzmann, Computer Science

MIT TECHNOLOGY REVIEW

Top 100 Young Innovators

2003

Edward E. Sargent, Electrical and Computer Engineering

THE NATIONAL ACADEMIES (U.S.)

Foreign Associate Members, unless otherwise indicated

Membership in the Academies (or for those outside of the U.S., Foreign Associateship) is one of the highest honours accorded to a scientist or engineer, recognizing distinguished and continuing achievement in research.

Institute of Medicine

2007

Peter St George-Hyslop, Centre for Research in Neurodegenerative Diseases

2005

David Naylor, Medicine

National Academy of Engineering

2006

Cristina Amon (member), Faculty of Applied Science and Engineering

2005

W. M. Wonham, Electrical and Computer Engineering

National Academy of Sciences

2004

Robert J. Birgeneau, Physics

Anthony J. Pawson, Molecular Genetics

Lap-Chee Tsui, Molecular Genetics

2002

Tak Mak, Medical Biophysics

THE ROYAL SOCIETY

Fellowship in the Royal Society is awarded to scientists who have made a distinguished achievement in their fields.

2004

Spencer Barrett, Ecology and Evolutionary Biology

Peter St George-Hyslop, Centre for Research in Neurodegenerative Diseases

2001

Robert J. Birgeneau, Physics

J. Richard Bond, Canadian Institute for Theoretical Astrophysics

2000

Janet Rossant, Molecular Genetics

James Till, Medical Biophysics

1999

Ernest McCulloch, Medical Biophysics

THE ROYAL SOCIETY OF LITERATURE

2003

Margaret MacMillan, History

ALFRED P. SLOAN FOUNDATION

Sloan Research Fellowship

These U.S.-based awards enhance the careers of the best young faculty members in specific fields of science.

2007

Ravin Balakrishnan, Computer Science
Deborah Zamble, Chemistry

2006

Aaron Hertzmann, Computer Science
Arun Paramekanti, Physics

2005

Sam Roweis, Computer Science

2004

Gregory Scholes, Chemistry
Balint Virag, Mathematics, UTSC

2003

Peter Andolfatto, Zoology
James Ellis Colliander, Mathematics
Kentaro Hori, Physics
Hae-Young Kee, Physics
Daniel A. Lidar, Mathematics

NATIONAL HONOURS

THE CALDWELL PARTNERS

Top 40 Under 40

2006

Tom Chau, Institute of Biomaterials and
Biomedical Engineering
Brendan J. Frey, Electrical and Computer
Engineering
Vivek Rao, Surgery
Aaron Schimmer, Medicine

2005

Brenda Banwell, Paediatrics
Philip Zelazo, Psychology

2003

Peter Dirks, Surgery
David Jaffray, Medical Biophysics
Edward E. Sargent, Electrical and Computer
Engineering

2002

Adalsteinn Brown, Health Policy, Management
and Evaluation

Aled Edwards, Banting and Best Department
of Medical Research

Christopher Hogue, Biochemistry

Michael Sherar, Medical Biophysics

Molly Shoichet, Chemical Engineering and
Applied Chemistry

CANADA COUNCIL FOR THE ARTS

Killam Prize

Honours eminent Canadian scholars
in engineering, health sciences, natural
sciences, social sciences and humanities.

2007

J. Richard Bond, Canadian Institute for
Theoretical Astrophysics

2005

Linda Hutcheon, Centre for Comparative
Literature

2004

James G. Arthur, Mathematics
Janet Rossant, Molecular Genetics

2003

Edward J. Davison, Electrical and Computer
Engineering
Tak Mak, Medical Biophysics

2002

Ian M. Hacking, Institute for the History and
Philosophy of Science and Technology
Lap-Chee Tsui, Molecular Genetics

CANADIAN INSTITUTES OF HEALTH RESEARCH

The Michael Smith Prize in Health Research

Given annually to a Canadian researcher
who has demonstrated a high degree of
innovation, creativity, leadership and
dedication in health research.

2007

Peter Singer, Medicine

2005

Janet Rossant, Molecular Genetics

2004

Sergio Grinstein, Biochemistry

2002

Anthony J. Pawson, Molecular Genetics

KILLAM RESEARCH FELLOWSHIP

Recognizes and supports distinguished
Canadian scholars who have established
outstanding reputations in their areas of
research.

2007

Lynne Magnusson, English

2005

Virginia Brown, Medieval Studies
(Renewed in 2006)

2004

Ian Lancashire, English (Renewed in 2006)

2003

John B. Friedlander, Mathematics, UTSC
Barbara Sherwood Lollar, Geology
(Renewed in 2005)
Lynne Viola, History (Renewed in 2005)

2002

J. Edward Chamberlin, English
Victor Ivrii, Mathematics
Thomas L. Pangle, Political Science

MOLSON PRIZE

Recognizes an outstanding lifetime
contribution to the cultural and
intellectual life of Canada.

2005

Ramsay Cook, History

2003

Janice Gross Stein, Political Science

2002

Ian M. Hacking, Institute for the
History and Philosophy of Science and
Technology

NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA

Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering

2005

Sajeev John (Physics) and **Geoffrey A. Ozin**
(Chemistry)

Gerhard Herzberg Canada Gold Medal For Science and Engineering

Given annually to a scientist or engineer
who has demonstrated excellence and influ-
ence in research for work that has advanced
the natural sciences or engineering fields.

2006

J. Richard Bond, Canadian Institute for
Theoretical Astrophysics

Steacie Memorial Fellowship Award

Given annually to university researchers
for outstanding scientific or engineering
achievement.

2007

Eckhard Meinrenken, Mathematics

Gregory Scholes, Chemistry

Aphraim Steinberg, Physics

2006

Locke Rowe, Zoology

2005

Roberto Garcia Abraham, Astronomy and
Astrophysics

Peter Zandstra, Chemical Engineering and
Applied Chemistry

2004

George Eleftheriades, Electrical and Computer
Engineering

Lisa Jeffrey, Mathematics

2003

Molly Shoichet, Chemical Engineering and
Applied Chemistry

Kim J. Vicente, Mechanical and Industrial
Engineering

Synergy Award For Innovation 2007

Luis Seco, Mathematical and Computational
Sciences, UTM

2005

Joseph Paradi, Mechanical and Industrial
Engineering

2004

Douglas Reeve, Chemical Engineering and
Applied Chemistry

ONTARIO MINISTRY OF RESEARCH AND INNOVATION

Premier's Catalyst Award Best Young Innovator

Recognizes excellence in commercially suc-
cessful innovations.

2007

Parham Aarabi, Electrical and Computer
Engineering

Premier's Discovery Award

Recognizes excellence in internationally
recognized research.

2007

Spencer Barrett, Ecology and Evolutionary
Biology

Andreas Mandelis, Mechanical and Industrial
Engineering

Premier's Summit Award in Medical Research

Given to leaders in medical research who
have made a major impact in their field
and a substantial contribution to medical
science.

2007

John E. Dick, Molecular Genetics

Tak Mak, Medical Biophysics

Anthony J. Pawson, Molecular Genetics

Peter St George-Hyslop, Centre for Research in
Neurodegenerative Diseases

THE ROYAL SOCIETY OF CANADA

Fellowships

Fellowship is a prestigious honour
recognizing outstanding contributions
to the arts and sciences.

2007

James Robert Brown, Philosophy

Gary Crawford, Anthropology, UTM

Lisa Jeffrey, Computer and Mathematical
Sciences, UTSC

Eugenia Kumacheva, Chemistry

Ian Lancashire, English

Kenneth Leithwood, Theory and Policy Studies
in Education, OISE/UT

Peter Martin, Canadian Institute for Theoretical
Astrophysics

John Mylopoulos, Computer Science

J. Robert Prichard, Law

Theodore Shepherd, Physics

Peter Singer, Medicine

Barry Wellman, Sociology

R. Paul Young, Civil Engineering

2006

Ronald Beiner, Political Science

Alan Bewell, English

Jing M. Chen, Geography

Joseph G. Culotti, Molecular Genetics

Abdallah Daar, Public Health Sciences

Lewis E. Kay, Molecular Genetics

Hector Levesque, Computer Science

Andreas Mandelis, Mechanical and
Industrial Engineering

Pamela Ohashi, Medical Biophysics

Terence W. Picton, Medicine

Janet Polivy, Psychology, UTM

Stephen Scherer, Molecular Genetics

Demetri Terzopoulos, Computer Science

William Trimble, Biochemistry

Mariana Valverde, Criminology

Jeffrey Wrana, Molecular Genetics

2005

Peter Abrams, Ecology and Evolutionary Biology
Brenda Andrews, Banting and Best Department of Medical Research

Charles M. Boone, Banting and Best Department of Medical Research

James Alan Dainard, French

Ronald de Sousa, Philosophy

James Drummond, Physics

Monica Heller, Sociology and Equity Studies in Education, OISE/UT

Mark R. Henkelman, Medical Biophysics

John M. Kennedy, Psychology, UTSC

Alexander M. Leggatt, English

John F. MacDonald, Physiology

Alberto O. Mendelzon, Computer and Mathematical Sciences, UTSC

Freda Miller, Molecular Genetics

Robert Morris, Chemistry

G. Peter Richardson, Centre for the Study of Religion

Michael Salter, Centre for the Study of Pain

Michael Sefton, Chemical Engineering and Applied Chemistry

John Edward Sipe, Physics

2004

Daniel Brooks, Ecology and Evolutionary Biology

Gregory M. Brown, Psychiatry

Stephen Clarkson, Political Science

John E. Dick, Molecular Genetics

Alison Fleming, Psychology, UTM

John Myles, Sociology

David Naylor, Medicine

Barbara Sherwood Lollar, Geology

Richard Simeon, Political Science

Donald Stuss, Medicine

Rosemary Sullivan, English

2003

Ian Blake, Electrical and Computer Engineering

Meric S. Gertler, Geography

Allan Griffin, Physics

David J. A. Jenkins, Nutritional Sciences

Roland Le Huenen, Centre for Comparative Literature

Jill Levenson, English

Patrick Macklem, Law

Yoshio Masui, Cell and Systems Biology

Adel Sedra, Electrical and Computer Engineering

Carolyn Tuohy, Political Science

Gordon F. West, Physics

Jason A. Hannah Medal

2007

Michael Bliss, Health Policy, Management and Evaluation

The Mclaughlin Medal

2007

John R. G. Challis, Physiology

2006

Michael D. Tyers, Molecular Genetics

2002

Sergio Grinstein, Biochemistry

E.W.R. STEACIE FOUNDATION

Steacie Prize

Canada's most prestigious research award for young scientists and engineers.

2003

Stephen Scherer, Molecular Genetics

CONNAUGHT COMMITTEE

CHANCELLOR JACKMAN RESEARCH FELLOWSHIPS IN THE HUMANITIES

2006-2007

Suzanne Akbari, English

Alana Johns, Linguistics

James Retallack, History

Marleen Rozemond, Philosophy

CONNAUGHT RESEARCH FELLOWSHIPS IN THE SOCIAL SCIENCES

2006-2007

Joseph M. Bryant, Religion

Simone Chambers, Political Science

Kelly Hannah-Moffat, Sociology, UTM

Jack Sidnell, Anthropology, UTM

MCLEAN AWARD

Since start of program in 1996

James Colliander (2007), Mathematics

Aephraim Steinberg (2006), Physics

Yael Karshon (2005), Mathematics

Molly Shoichet (2004), Chemical Engineering and Applied Chemistry

Eckhard Meinrenken (2003), Mathematics

Kim J. Vicente (2002), Mechanical and

Industrial Engineering

Jerry Mitrovica (2001), Physics

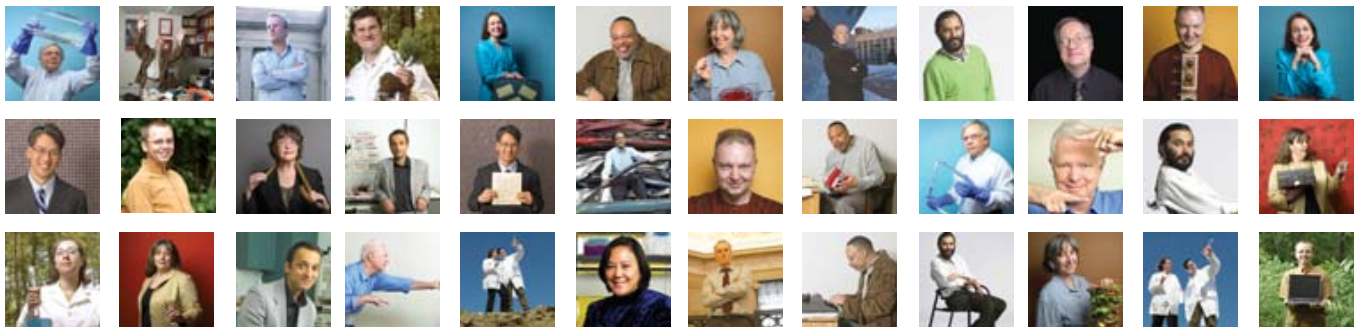
Lisa Jeffrey (2000), Mathematics, UTSC

Boris Khesin (1999), Mathematics

Lewis Kay (1998), Molecular Genetics

Ian Manners (1997), Chemistry

Sajeev John (1996), Physics



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