

## 5

U of T Engineering faculty members, staff and alumni continue to earn widespread recognition for their outstanding achievements in research, teaching, professional endeavours and community service.

Our professors have been recognized for the excellence of their research and their teaching, and once again, we outperformed all other Canadian engineering schools in 2016–2017. While U of T Engineering is home to less than 6% of the engineering faculty in Canada, we received more than 24% of major national and international awards won by engineering professors nationwide — more than three times as many as any other engineering school in the country.

Our reputation for attracting the most talented engineering scholars is reflected in the many major international and national awards earned by our early-career researchers and educators. Professor Angela Schoellig (UTIAS) received a prestigious Sloan Research Fellowship, the second year in a row a faculty member has received this award, while Professor Amy Bilton (MIE) garnered the Engineers Canada Young Engineer Achievement Award.

Other U of T Engineering faculty members continue to distinguish themselves by receiving top national and international honours. Dean Cristina Amon received the Sir John Kennedy Medal, the highest honour bestowed by the Engineering Institute of Canada. Professor Molly Shoichet (ChemE, IBBME) received the Killam Prize in Engineering, the second consecutive year a U of T engineer received this award.

Our faculty members were widely recognized for their contributions to education. Professor Greg Evans (ChemE) was the recipient of the 3M Teaching Fellowship, Canada's most prestigious award for teaching. Professor Dawn Kilkenny (IBBME) received the U of T Early Career Teaching Award and the Wighton Fellowship, a national award for excellence in laboratory teaching, and Professor Jonathan Rose (ECE) garnered the President's Teaching Award from U of T and the OCUFA Teaching Award from the Ontario Confederation of University Faculty Associations.

Staff members in several departments garnered University recognitions such as the Excellence Through Innovation Award and the True Blue Award, and were honoured at the national and international level for outstanding achievements in communication and outreach.

## Measuring Excellence

In 2016, U of T Engineering faculty members were recognized with 22 major awards and honours for excellence in research and teaching, and contributions to the engineering profession. Nineteen of those awards were from prestigious national and international engineering bodies, more than three times as many as any other Canadian engineering school and more than the next three schools combined. That figure represented 24.4% of all national and international awards received by engineering professors across Canada, even though our faculty members comprise only 5.7% of engineering faculty members nationally.

**Figure 5.1 Summary of Major International, National and Provincial Awards and Honours, 2007 to 2016**

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>International</b>										
AAAS Fellowships (Engineering Section)	2	4	4	6	5	3			1	4
MIT Top 35 Under 35		1				1				
U.S. National Academies*				1	1			1		1
<b>National</b>										
Brockhouse Prize										1
Canadian Academy of Engineering Fellowship	1	3	9	8	1	7	6	3	5	5
Engineering Institute of Canada Fellowship	2	3	4	3	3	3	3	3	2	3
Engineering Institute of Canada Awards				1	2	1	2		1	1
Engineers Canada Awards			1	3		1	1	1	1	
Killam Research Fellowship*		2		2						
Killam Prize*		1						1		1
Manning Innovation Award								1		
Royal Society of Canada Fellowship*	1	1	1	2	4	3		2	2	1
Royal Society of Canada College of New Scholars, Artists and Scientists								1	1	1
Steacie Fellowship*			1			2	1	1	1	1
Steacie Prize*						1				
Synergy Award for Innovation			1			1				
<b>Provincial</b>										
Ontario Professional Engineers Awards		3	4	4	5	3	2	2	1	2
OCUFA Teaching Award				1					1	1
<b>Total</b>	<b>6</b>	<b>18</b>	<b>25</b>	<b>31</b>	<b>21</b>	<b>26</b>	<b>15</b>	<b>16</b>	<b>16</b>	<b>22</b>

Data in this chapter are presented for the 2016 calendar year (January to December). Selected faculty, alumni and staff awards were received between summer 2016 and summer 2017.

**Note 5.1:** (\*) denotes U of T performance indicator. Data shown are by calendar year (January to December) and include faculty award recipients only. Please see Appendix G to read descriptions of the listed awards and honours.

Figure 5.2a Number of Major National and International Awards Received by U of T Engineering Compared to Other Canadian Engineering Faculties, 2016

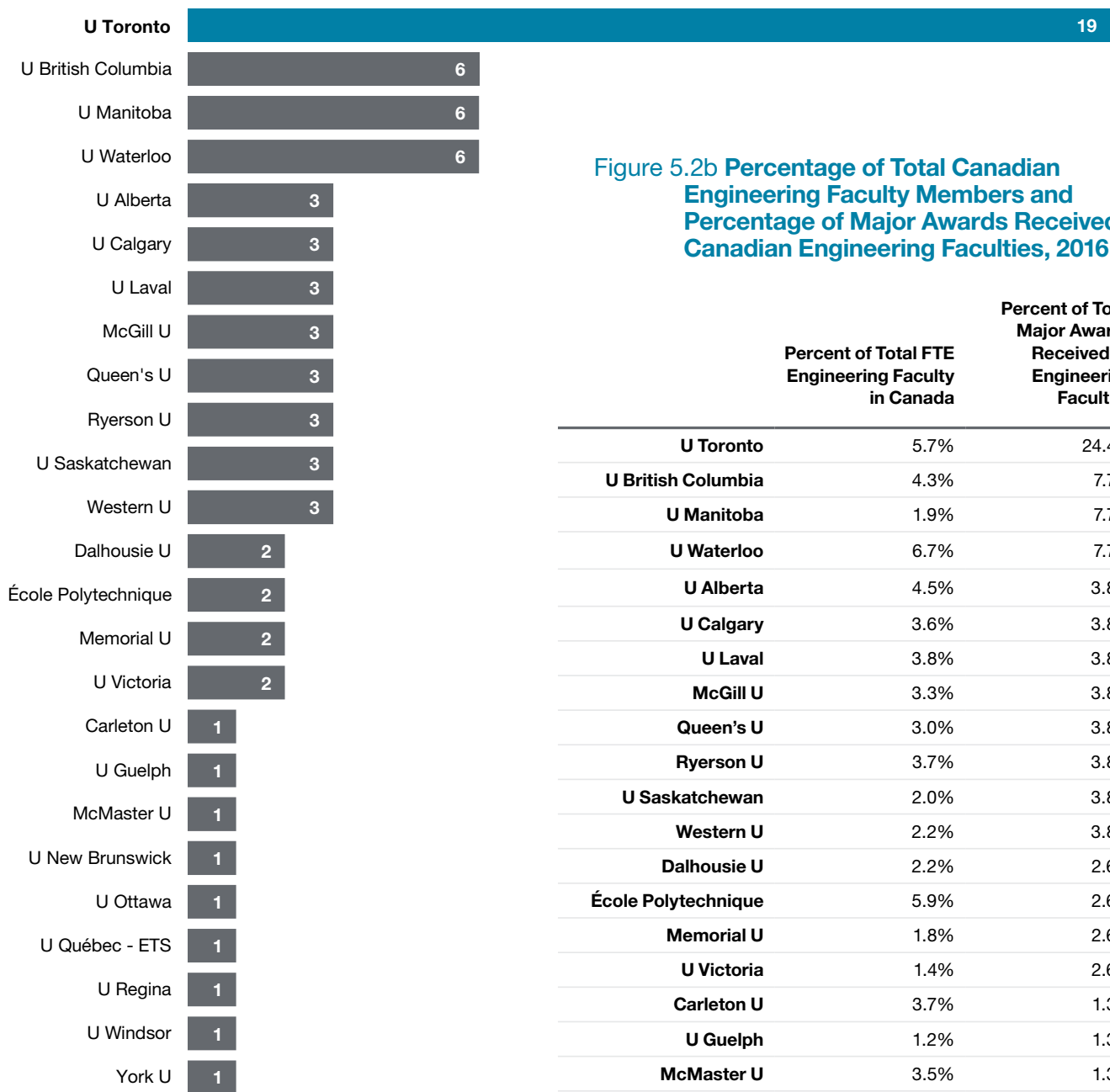
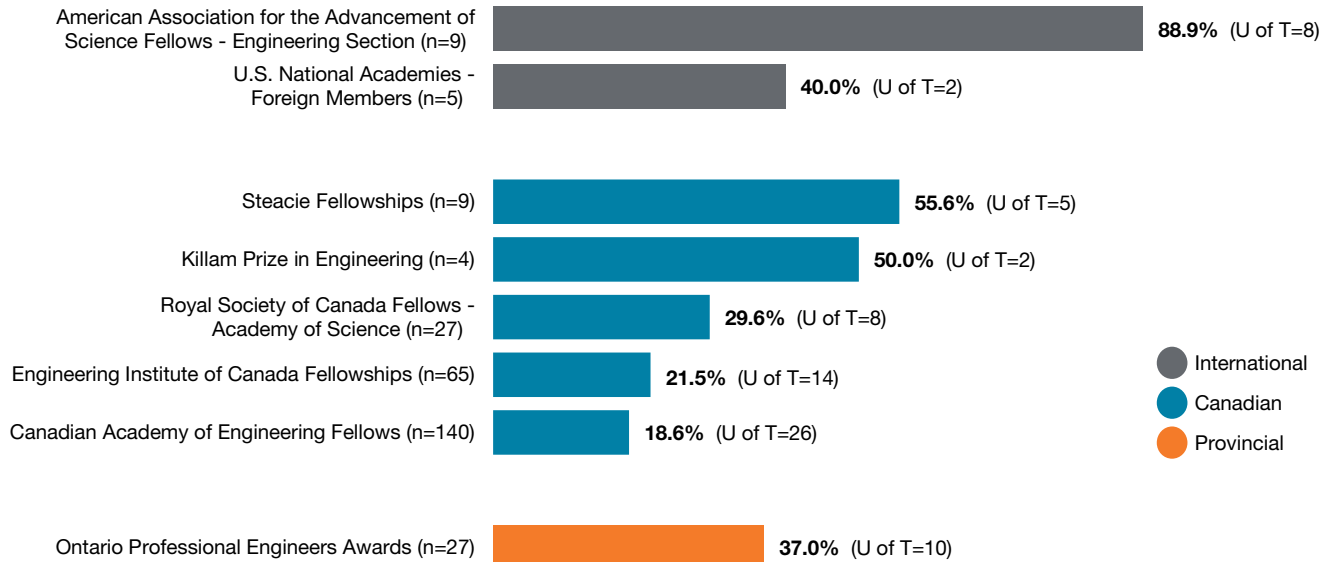


Figure 5.2b Percentage of Total Canadian Engineering Faculty Members and Percentage of Major Awards Received by Canadian Engineering Faculties, 2016

	Percent of Total FTE Engineering Faculty in Canada	Percent of Total Major Awards Received by Engineering Faculties
U Toronto	5.7%	24.4%
U British Columbia	4.3%	7.7%
U Manitoba	1.9%	7.7%
U Waterloo	6.7%	7.7%
U Alberta	4.5%	3.8%
U Calgary	3.6%	3.8%
U Laval	3.8%	3.8%
McGill U	3.3%	3.8%
Queen's U	3.0%	3.8%
Ryerson U	3.7%	3.8%
U Saskatchewan	2.0%	3.8%
Western U	2.2%	3.8%
Dalhousie U	2.2%	2.6%
École Polytechnique	5.9%	2.6%
Memorial U	1.8%	2.6%
U Victoria	1.4%	2.6%
Carleton U	3.7%	1.3%
U Guelph	1.2%	1.3%
McMaster U	3.5%	1.3%
U New Brunswick	1.5%	1.3%
U Ottawa	2.9%	1.3%
U Québec - ETS	8.7%	1.3%
U Regina	1.1%	1.3%
U Windsor	1.6%	1.3%
York U	1.3%	1.3%

**Note 5.2a, b:** Data shown are by calendar year (January to December) and include faculty award recipients only. The following major awards are included: International – American Association for the Advancement of Science Fellowship (Engineering Section), MIT Top 35 under 35, U.S. National Academies; National – Alan Blizzard Award, Brookhouse Prize, Canadian Academy of Engineering Fellowship, Engineering Institute of Canada Awards, Engineering Institute of Canada Fellowship, Engineers Canada Awards, Killam Prize (Engineering), Killam Research Fellowship, Manning Innovation Award, Royal Society of Canada Fellowship (Engineering/Physical Sciences), Royal Society of Canada College of New Scholars, Artists and Scientists, Steacie Fellowship, Steacie Prize and Synergy Awards for Innovation.

**Figure 5.3 Number of Awards Received by U of T Engineering Faculty Compared to Other Canadian Engineering Faculties, 2012 to 2016**



## Selected Awards Received by Faculty Members and Alumni

The following is a selected list of awards U of T Engineering professors and alumni received between summer 2016 and summer 2017.

### INTERNATIONAL

#### American Association for the Advancement of Science: *Fellow*

Kamran Behdinan (MIE)  
Zheng-Hong Lu (MSE)  
Jeffrey Packer (CivE)  
Yu Sun (MIE)

#### American Concrete Institute: *Joe W. Kelly Award*

Frank Vecchio (CivE)

#### American Society of Mechanical Engineers: *Honorary Member*

Cristina Amon (MIE)

#### Engineering Conferences International: *Scale-Up and Manufacturing of Cell-Based Therapies Award*

Peter Zandstra (IBBME)

#### Institute of Electrical and Electronics Engineers: *Fellow*

Ravi Adve (ECE)  
Sorin Voinigescu (ECE)

#### Institute of Electrical and Electronics Engineers

#### Information Theory Society: *Aaron D. Wyner Distinguished Service Award*

Frank Kschischang (ECE)

#### Institute of Materials, Minerals and Mining (U.K.): *Fellow*

Paul Young (CivE)

#### Sloan Foundation: *Sloan Research Fellowship*

Angela Schoellig (UTIAS)

#### SPIE (The International Society for Optical Engineering): *Fellow*

Peter Herman (ECE)  
Hani Naguib (MIE, MSE)

#### Technical Association of the Pulp and Paper Industry:

#### *Gunnar Nicholson Gold Medal Award*

Honghi Tran (ChemE)

#### Technical University of Munich: *TUM Ambassador*

Frank Kschischang (ECE)

#### Tissue Engineering & Regenerative Medicine

#### International Society: *Lifetime Achievement Award*

Michael Sefton (ChemE, IBBME)

**Note 5.3:** Data shown are by calendar year (January to December) and include faculty award recipients only.

## NATIONAL

### **Canada Council for the Arts: *Killam Prize in Engineering***

Molly Shoichet (ChemE, IBBME)

### **Canadian Academy of Engineering: *Fellow***

Nazir Kherani (MSE, ECE)

Deepa Kundur (ECE)

Milica Radisic (IBBME, ChemE)

Murray Thomson (MIE)

Honghi Tran (ChemE)

### **Canadian Society for Civil Engineering:**

#### *Albert E. Berry Medal*

Heather MacLean (CivE)

### **Canadian Society for Civil Engineering:**

#### *Camille A. Dagenais Award*

Bryan Karney (CivE)

### **Canadian Society for Civil Engineering: *Fellow***

Brent Sleep (CivE)

### **Canadian Society for Mechanical Engineering: *Fellow***

Nasser Ashgriz (MIE)

### **Canadian Society for Mechanical Engineering:**

#### *Robert W. Angus Medal*

Kamran Behdinan (MIE)

### **Chemical Institute of Canada/Society for**

#### **Chemical Industry: *Kalev Pugi Award***

Molly Shoichet (ChemE, IBBME)

### **Engineering Institute of Canada: *John B. Stirling Medal***

Jean Zu (MIE)

### **Engineering Institute of Canada:**

#### *Sir John Kennedy Medal*

Cristina Amon (MIE)

### **Engineers Canada: *Fellow***

Levente Diosady (ChemE)

### **Engineers Canada: *Young Engineer Achievement Award***

Amy Bilton (MIE)

### **Metallurgy and Materials Society of the Canadian Institute of Mining, Metallurgy and Petroleum:**

#### *Brimacombe Award*

Kinnor Chattopadhyay (MSE)

### **Metallurgy and Materials Society of the Canadian Institute of Mining, Metallurgy and Petroleum:**

#### *Environmental Award*

Charles Jia (ChemE)

### **March of Dimes Canada: *Jonas Salk Pioneer Award***

Tom Chau (IBBME)

### **Office of the Governor General: *Governor General's Innovation Award***

Paul Santerre (IBBME)

### **Royal Society of Canada: *Fellow***

Javad Mostaghimi (MIE)

### **Royal Society of Canada College of New Scholars, Artists & Scientists: *Member***

Hani Naguib (MIE, MSE)

### **Sandford Fleming Foundation: *Wighton Fellowship***

Dawn Kilkenny (IBBME)

### **Society for Teaching and Learning in Higher Education:**

#### *3M National Teaching Fellow*

Greg Evans (ChemE)

### **Stem Cell Network: *Till & McCulloch Award***

Molly Shoichet (ChemE, IBBME)

## PROVINCIAL

### **Ontario Confederation of University Faculty Associations: *OCUFA Teaching Award***

Jonathan Rose (ECE)

### **Ontario Professional Engineers Awards:**

#### *Engineering Excellence Medal*

Vaughn Betz (ECE)

### **Ontario Professional Engineers Awards:**

#### *Research and Development Medal*

Stewart Aitchison (ECE)

## University of Toronto

### **Distinguished Professor of Nanobioengineering**

Warren Chan (IBBME)

### **Early Career Teaching Award**

Dawn Kilkenny (IBBME)

### **Faculty Award**

Elizabeth Edwards (ChemE)

### **Northrop Frye Award**

Craig Simmons (MIE, IBBME)

## Selected Awards Received by Staff, April 2016 to April 2017

### INTERNATIONAL

#### Graduway Award for Most Creative Marketing Campaign

U of T Engineering CONNECT

#### International Association of Business Communicators (IABC) Gold Quill Award of Merit, #DisplayYourPride Campaign

Engineering Strategic Communications

### NATIONAL

#### Actua Make Friends with Science Award

Engineering Outreach Office

#### Canadian Council for the Advancement of Education (CCAIE) Prix d'Excellence, CEIExSKAM Graffiti Mural

Engineering Strategic Communications

#### CCAIE Prix d'Excellence, Innovate U

Engineering Strategic Communications, Engineering Outreach

#### Council for Advancement and Support of Education (CASE) District II Gold Award, CEIExSKAM Graffiti Mural

Engineering Strategic Communications

#### CASE District II Gold Award, Welcome to Skule Microsite

Engineering Strategic Communications, Engineering Recruitment

#### RGD In-house Award, CEIExSKAM Graffiti Mural

Engineering Strategic Communications

### TORONTO

#### International Association of Business Communicators (IABC) Ovation Award, Skulematters

Engineering Strategic Communications, Engineering Advancement

#### IABC Ovation Award, Welcome to Skule Microsite

Engineering Strategic Communications, Engineering Recruitment

### U OF T

#### Excellence Through Innovation Award

Annie Simpson (ILead)

#### True Blue Award

Sharon Brown (Cross-Disciplinary Programs Office)

Pierina Filippone (Office of the Registrar)

Phuong Huynh (First Year Office)

David F. James (MIE)

## University of Toronto Engineering Faculty Awards

Each year, U of T Engineering recognizes the excellence of our staff and faculty through a number of awards for research, teaching, leadership and dedication to improving the student experience.

### Agnes Kaneko Citizenship Award

Presented to a staff member who has served with distinction and made contributions to the Faculty's mission above and beyond their job description over a long period of time. This award was established in memory of a dedicated Civil Engineering staff member.

2016–17: Joan DaCosta (UTIAS)

2015–16: Matthew Chow (ECE)

2014–15: Belinda Li (ECE)

2013–14: Oscar del Rio (MIE)

### Harpreet Dhariwal Emerging Leader Award

Presented to a staff member who leads by example in their dedication to the Faculty's mission. Recipients are held in high regard by colleagues and demonstrate potential to assume more senior leadership roles within the Faculty. This award was renamed in memory of an esteemed staff member who received this honour in 2011–2012.

2016–17: Andrey Shukalyuk (IBBME)

2015–16: Bruno Korst (ECE)

2014–15: Kelly Hayward (ECE)

2013–14: Luke Ng (MSE)

## Innovation Award

Presented to staff who, individually or as a team, address a problem creatively by developing a new technology or making significant improvements to an existing system or method.

- 2016–17: Pauline Martini (ChemE)
- 2015–16: Roberta Baker, Raymond Cheah, Shilpa Gantotti and Catherine Riddell (Engineering Strategic Communications)
- 2014–15: Darlene Gorzo, Jaro Pristupa and Joe Wong (ECE)
- 2013–14: Tomas Bernreiter (MIE)

## Quality of Student Experience Award

Presented to a staff member who has made significant improvements to the quality of student experience.

- 2016–17: Cori Hanson (Office of the Registrar)  
Endang (Susie) Susilawati (ChemE)
- 2015–16: Carla Baptista (MIE)
- 2014–15: Mike Mehramiz (ECE)
- 2013–14: Susan Grant (ECE)

## Research Leader Award

Presented to a faculty member or team who has shown leadership in innovative, interdisciplinary and/or collaborative research initiatives that has enhanced the Faculty's research profile within the broader community.

- 2016–17: Greg Evans (ChemE)
- 2015–16: Alberto Leon-Garcia (ECE)
- 2014–15: Honghi Tran (ChemE)
- 2013–14: Javad Mostaghimi (MIE)

## Sustained Excellence in Teaching Award

Recognizes a faculty member who has demonstrated excellence in teaching over the course of at least 15 years.

- 2016–17: Will Cluett (ChemE)
- 2014–15: Jonathan Rose (ECE)
- 2013–14: Glenn Gulak (ECE)
- 2012–13: Tarek Abdelrahman (ECE)

## Early Career Teaching Award

Presented in recognition of exceptional teaching by a faculty member who has taught at U of T for less than six years.

- 2016–17: Matthew Mackay (MIE)
- 2014–15: Scott Ramsay (MSE)
- 2012–13: Jason Anderson (ECE) and Timothy Chan (MIE)
- 2011–12: Micah Stickel (ECE)

## Faculty Teaching Award

Recognizes a faculty member who demonstrates outstanding classroom instruction and develops innovative teaching methods.

- 2016–17: Craig Simmons (MIE, IBBME)
- 2014–15: Jason Foster (EngSci)
- 2013–14: Greg Evans (ChemE)
- 2012–13: Evan Bentz (CivE)



# Engineering Alumni Association Awards, 2016–2017

The Engineering Alumni Association's annual awards honour graduates for outstanding contributions to U of T Engineering and to the profession.

## L.E. (Ted) Jones Award of Distinction

Inspired by the contributions of Professor Emeritus L.E. (Ted) Jones, this award honours an alumnus/alumna for his or her support and dedication to U of T Engineering and its arts community.

2016–17: Allan Kuan (EngSci 1T4 + PEY, CivE MASc 1T7);  
Alex Perelgut (EngSci 1T6 + PEY)  
2015–16: Xiao Fionna Gan (EngSci 1T6)  
2014–15: Luca Casciato (MechE 1T5); Haruna Monri (CivE 1T5)  
2013–14: Christopher Sun (EngSci 1T3 + PEY)

## 7T6 Early Career Award

Presented to an alumnus/alumna 10 years after graduation who is distinguished in the profession and community.

2016–17: Andrew Gillies (MechE 0T7); Christopher Wilmer (EngSci 0T7)  
2015–16: Gimmy Chu (ElecE 0T6)  
2014–15: Stefanie Blain-Moraes (EngSci 0T5); Todd Reichert (EngSci 0T5, UTIAS PhD 1T1)  
2013–14: Mathew Szeto (CompE 0T4)

## 2T5 Mid-Career Achievement Award

Presented to an alumnus/alumna 25 years after graduation who has earned respect within the profession and broader community, attained significant achievement and exhibits promise of further contributions.

2016–17: Tom Chau (EngSci 9T2)  
2015–16: Raffaello D'Andrea (EngSci 9T1)  
2014–15: Janet Elliot (EngSci 9T0); Suneet Tuli (CivE 9T0)  
2013–14: Ted Maulucci (MechE 8T9)

## Malcolm F. McGrath Alumni Achievement Award

Named in honour of Malcolm McGrath on his retirement as assistant dean, alumni liaison, this award recognizes contributions of personal service to the Faculty, University or to the greater community.

2016–17: Don Andrew (CivE 5T4)  
2015–16: Ross Pitman (GeoE 7T4)  
2014–15: R. Christopher Hinde (CivE 5T0)  
2013–14: Caprice Boisvert (MechE 9T3)

## Engineering Alumni Hall of Distinction Award

The Hall of Distinction is an assembly of extraordinary alumni, selected by their peers for their lifelong accomplishments. These are graduates who have ultimately defined what is most exemplary in the engineering profession.

2016–17:  
Rocco Martino (Physics 5T1, Astrophysics MASc 5T2, UTIAS PhD 5T6)  
Kathy Milsom (CivE 8T3)  
Jonathan Rose (EngSci 8T0, ECE MASc 8T2, ECE PhD 8T6)  
The Honourable Tom Siddon (UTIAS MASc 6T6, UTIAS PhD 6T9)

2015–16:  
Paul Henderson (EngBus 5T7)  
Ali Khademhosseini (ChemE 9T9, IBBME MASc 0T1)  
Ronald Sidon (IndE 6T6)  
John Weber (MechE 7T9)

2014–15:  
William Breukelman (ChemE 5T5)  
Jan Carr (ElecE 6T8)  
Jay Cross (EngSci 7T5)  
Emil Frind (CivE 6T6)

2013–14:  
Prabha Kundur (ElecE MASc 6T5, ECE PhD 6T7)  
Gerald Smith (MechE 8T7)  
Som Seif (IndE 9T9)  
William Troost (ChemE 6T7)