

State of the

FACULTY OF ENGINEERING

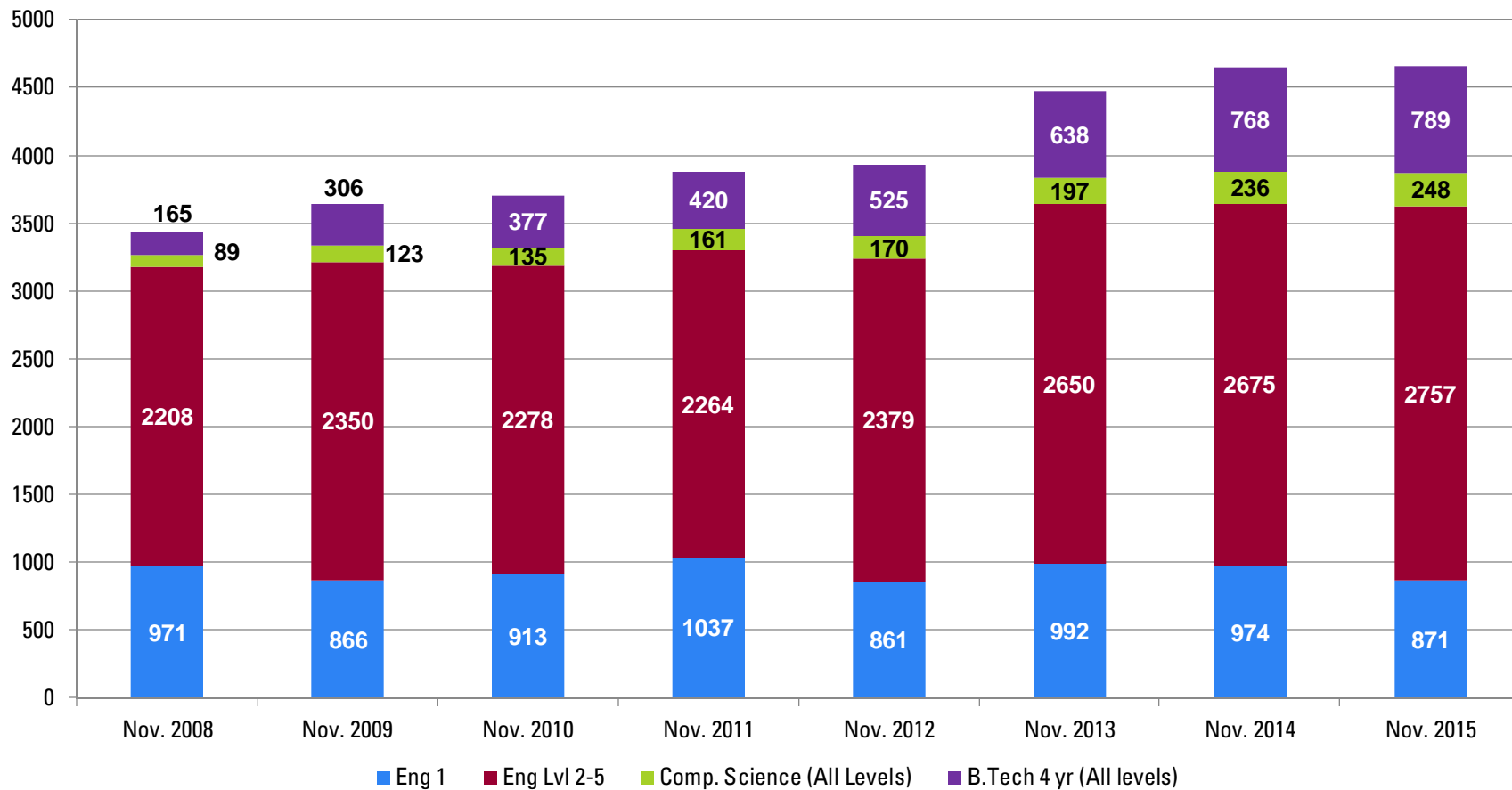
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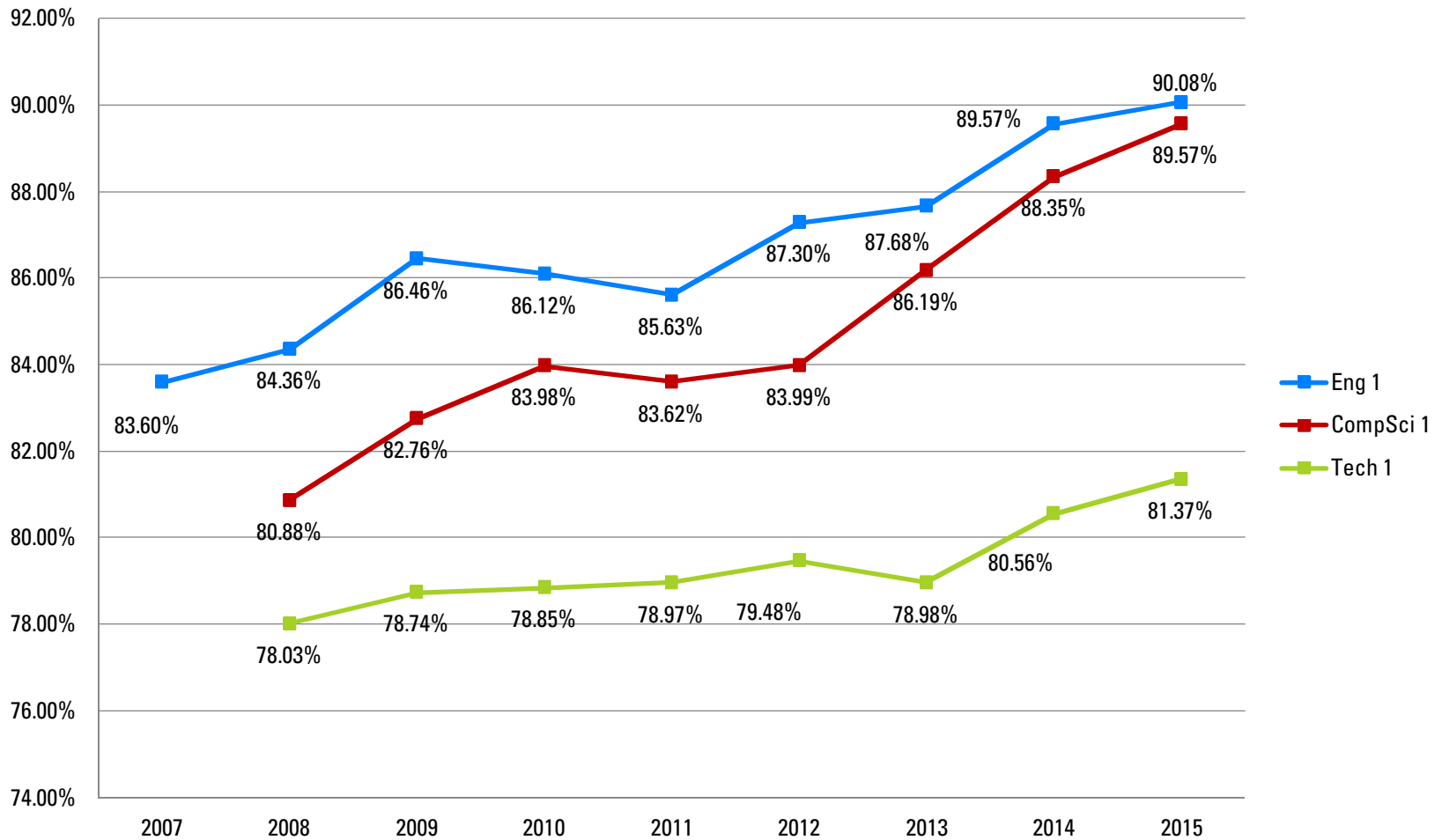
November 2015

Report for Academic Year 2014-2015

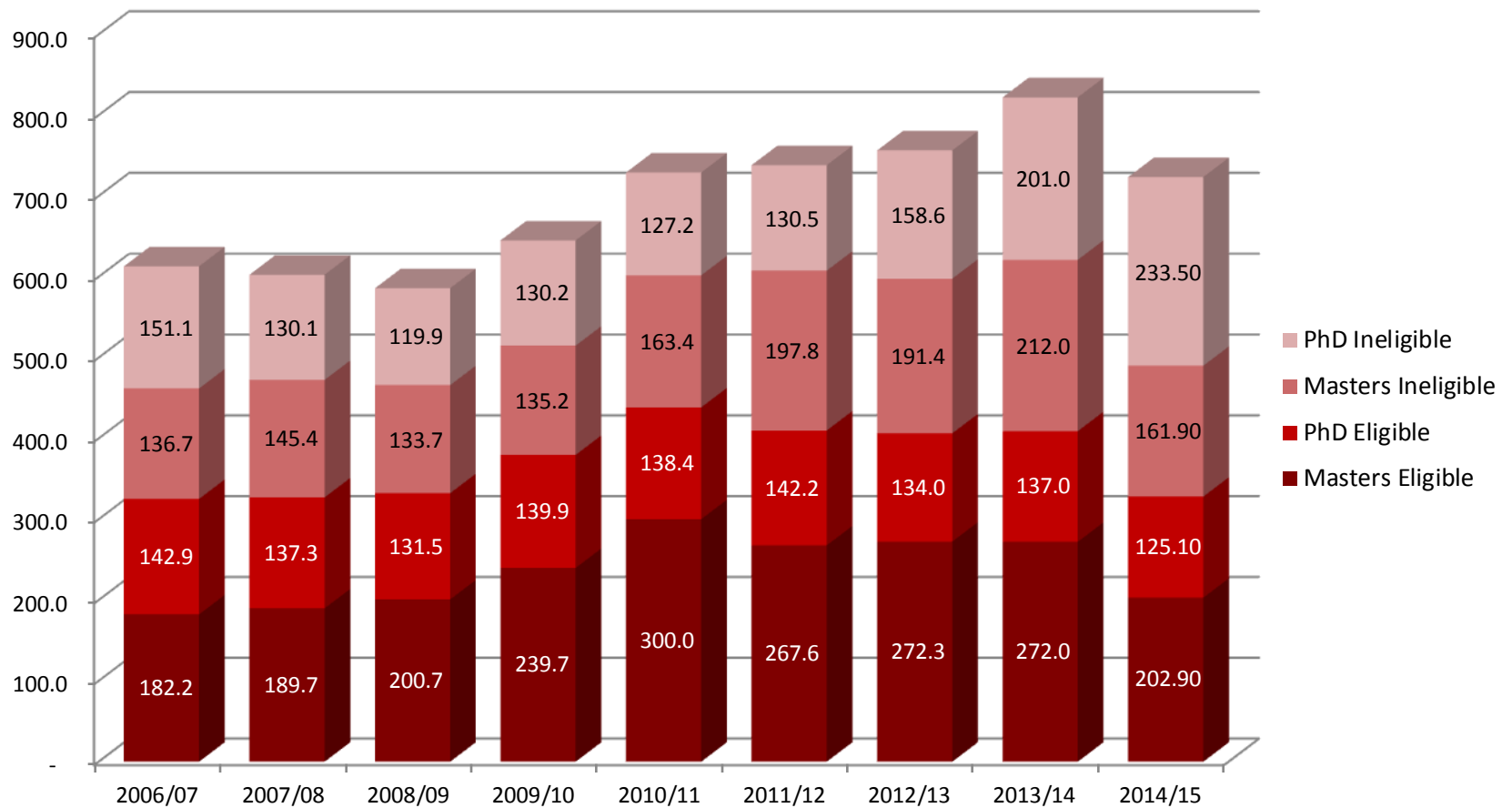
Full Time Undergrad Enrolment November 1 Counts (Excludes Students on Co-op)



Student Quality – Entering Averages

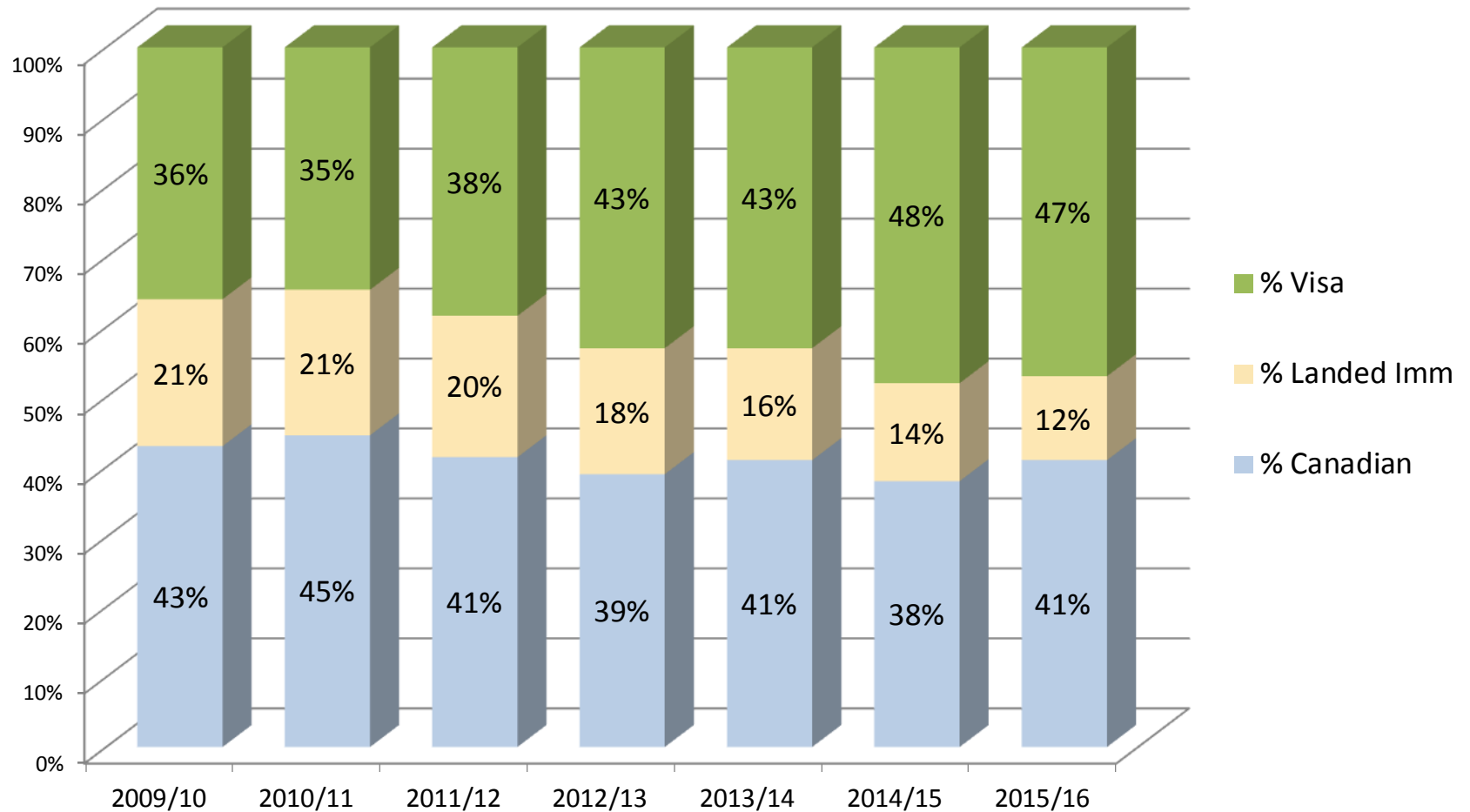


Graduate FTE (FT = 1, PT =.3)

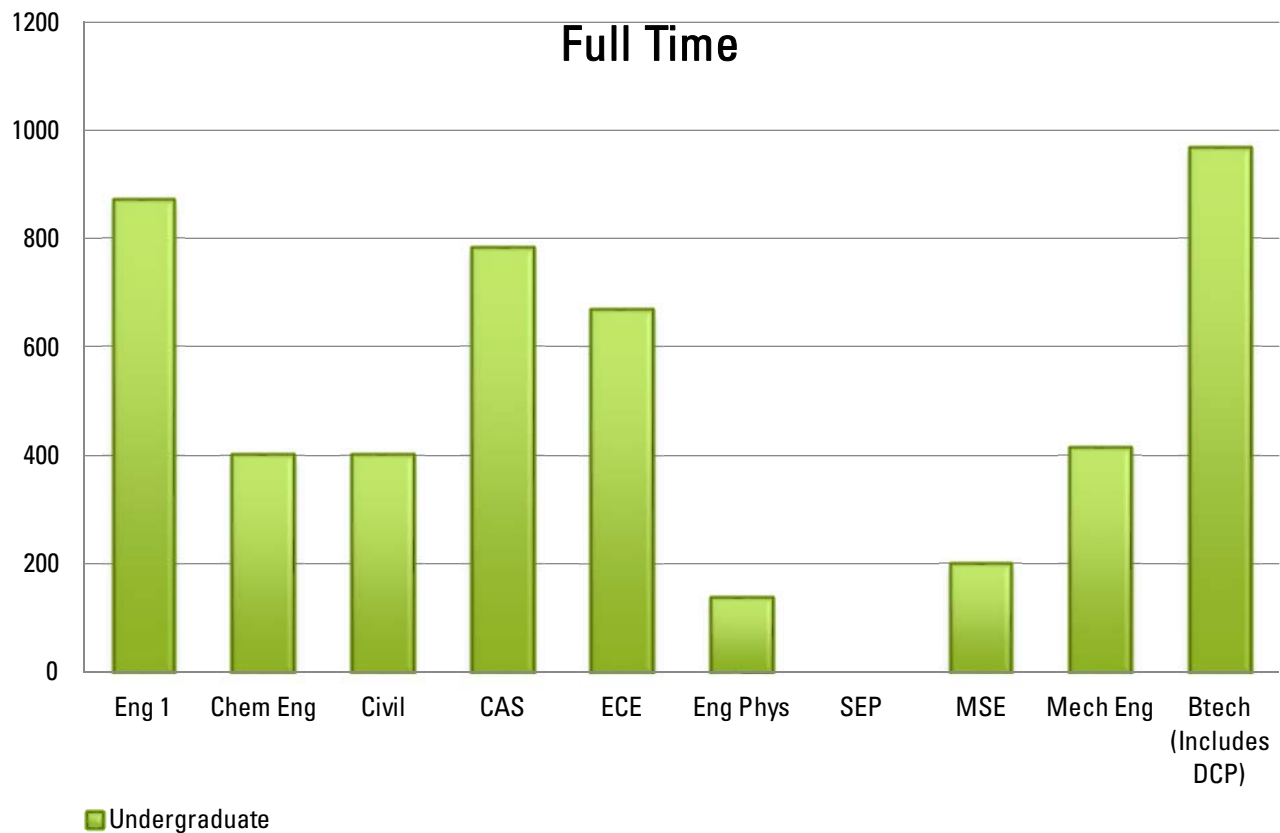


2015/16 enrolment data will be included when available

Graduate Students Foreign vs. Domestic

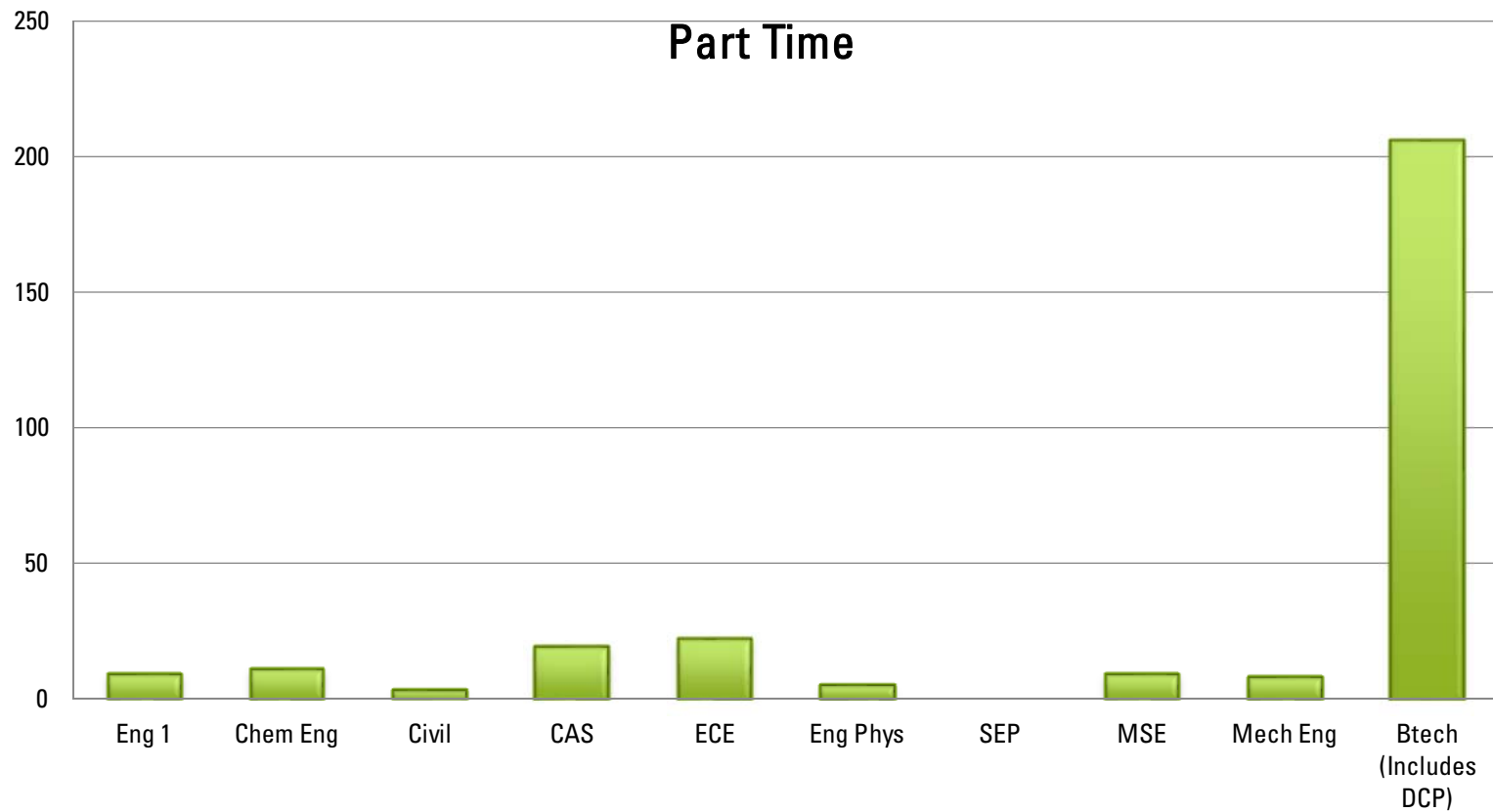


2015 Enrollment Numbers by Department and Degree



2015/16 graduate enrolment data will be included when available

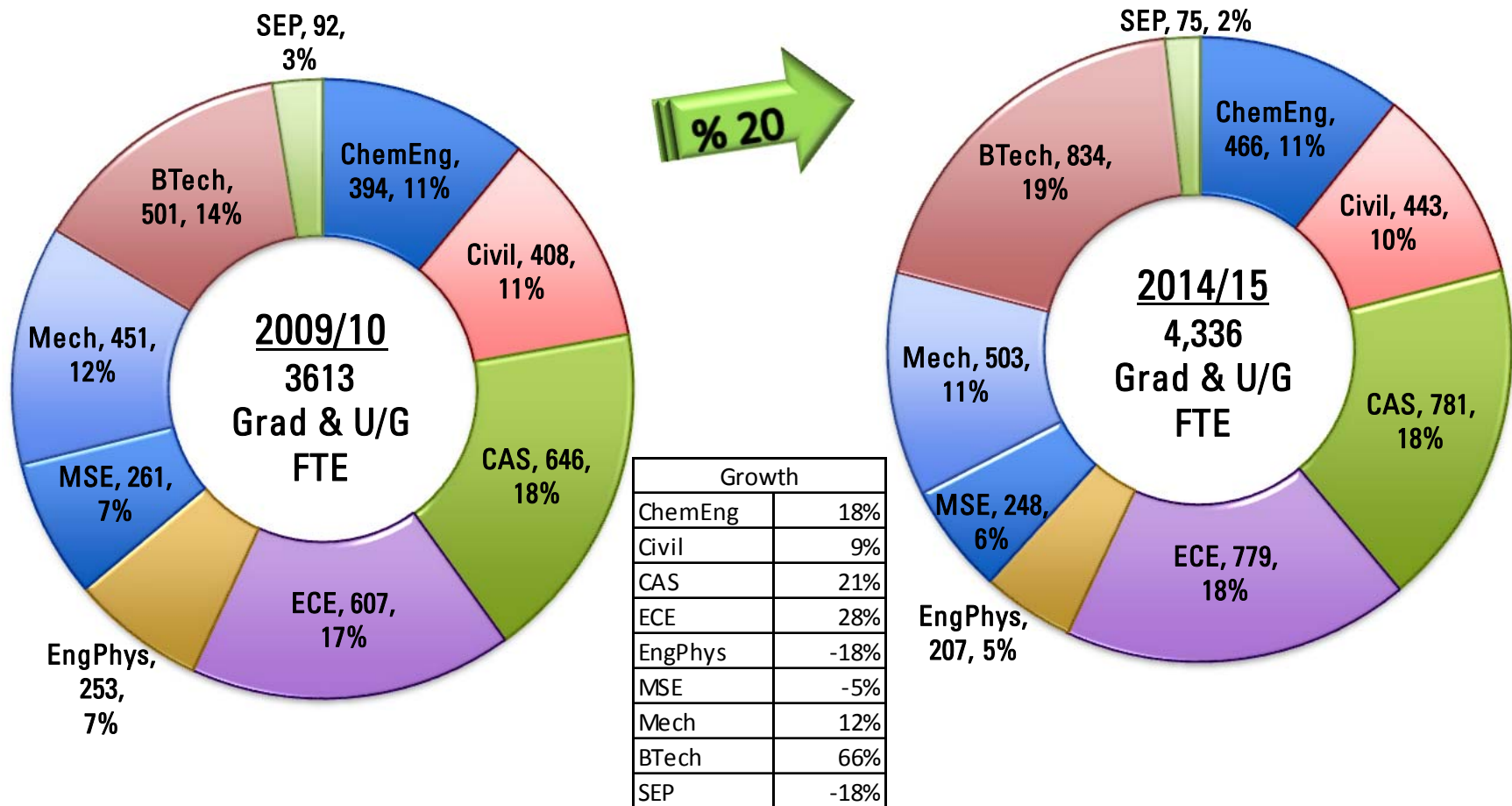
2015 Enrollment Numbers by Department and Degree



■ Undergraduate

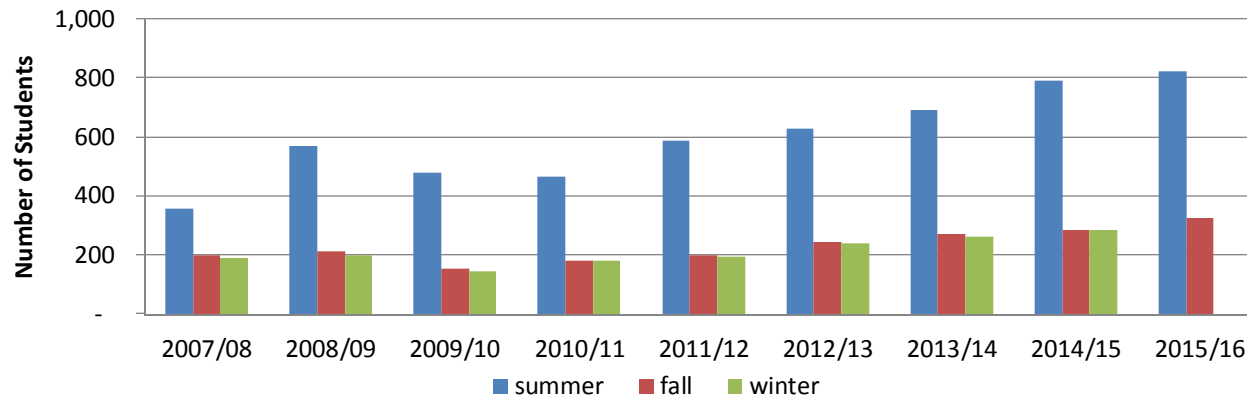
2015/16 graduate enrolment data will be included when available

Departmental Distribution of Students

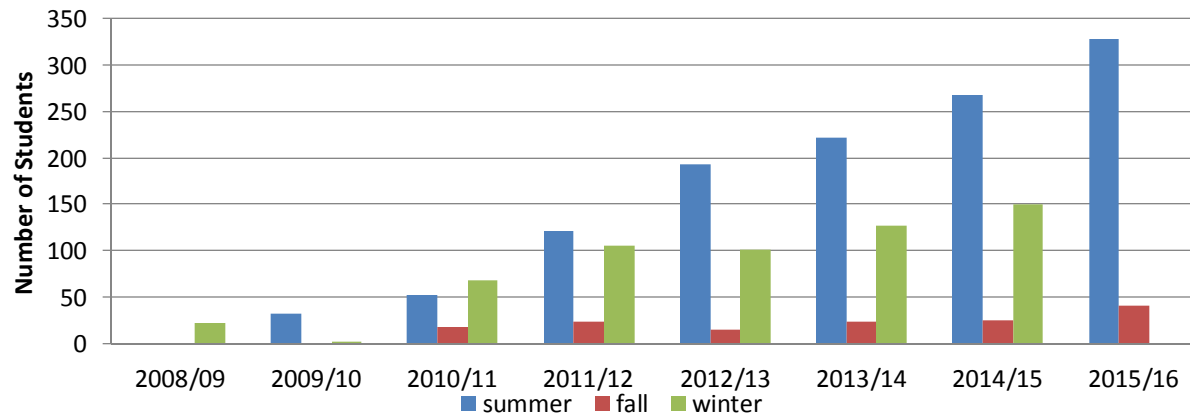


Co-op Work Terms

Bachelor of Engineering Co-op Work Terms



Bachelor of Technology Co-op Work Terms



Women in Engineering

2014/15	Undergraduate Students	Graduate Students	Faculty FTE
Canada	19.1%	24.0%	13.8%
<i>Change from prior year</i>	- 0.05%	+ 2.56%	+ 2.99%
Ontario	19.6%	23.8%	14.6%
<i>Change from prior year</i>	- 1.03%	+ 5.31%	+ 4.29%
McMaster	17.6%	26.5%	12.3%
<i>Change from prior year</i>	- 5.38%	+ 3.92%	+ 6.96%

Source: NCDEAS Resources Survey 2014

Graduate Studies

- We are focused on recruiting excellent domestic students into our programs, with the aim to increase PhD numbers across the faculty.
- Increase in the minimum remuneration for PhD students announced for Sept 2015, at tuition plus \$14,000 up from \$17,500.
- We are increasing access to professional skills development by providing more workshops, requiring all incoming students to engage in career planning, and a new Career Development and Relations Manager was hired to build up a work placement option across the faculty.

Program Reviews

- School of Engineering Practice (all programs) is to be reviewed this year.
- Computing and Software and the School of Computational Engineering were reviewed last year; positive reviews to both.

Scholarships – NSERC/OGS

- The OGS and NSERC CGS-M scholarships remain at the awarding university and may not be taken to another by the applicant.
- All applications are ranked by an internal scholarships committee and only a fraction will be approved to be forwarded to NSERC. OGS scholarships will be awarded from the same ranking list.
- The OGS scholarship is changing such that next year the top-up limit will be removed and departments will be free to offer funding that attracts the best students into our programs.

Scholarships – NSERC

- Doctoral scholarship still awarded by Tri-Council committees in a Canada wide competition.
- To improve our numbers of award winners in the faculty, the new Faculty Mentorship website offers tips on increasing the impact of reference letters being written for applicants.
 - 2014 – Engineering received 4 and Science 22
 - 2015 – Engineering received 9 and Science 36

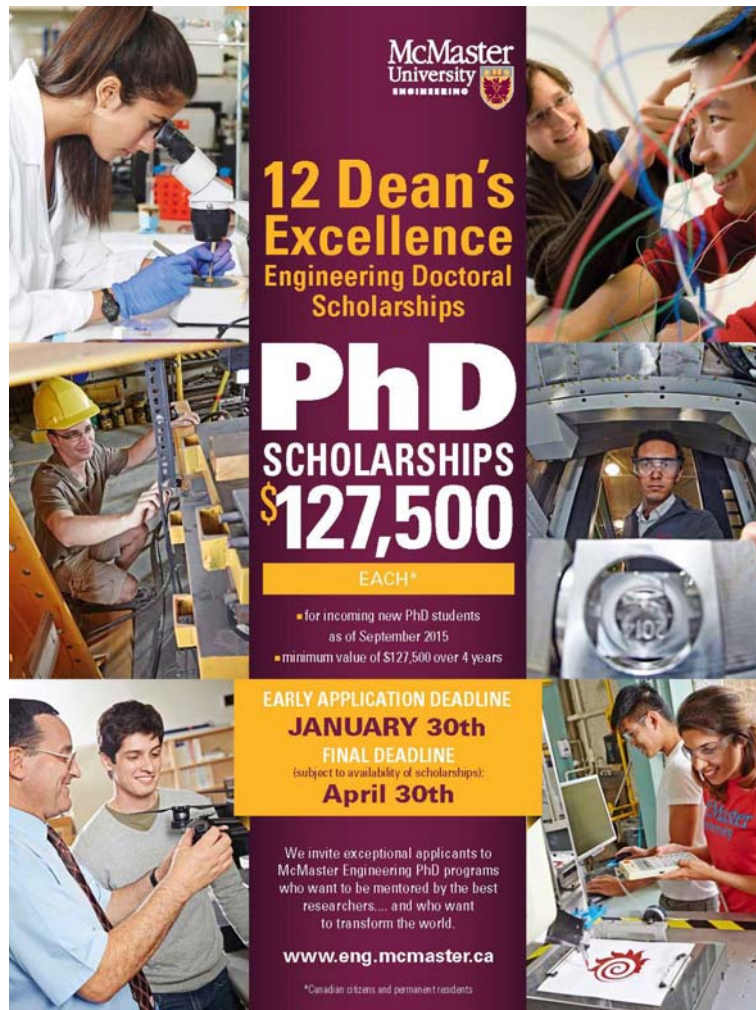
International Scholarships

- Strong pool of international graduate students.
- Supplemented by international scholarships from China Scholarship Council (CSC) and other international agencies.
- Ontario Trillium Awards also available for top international scholars.

Dean's Bridging Scholarships

- One year of a student's stipend will be covered for faculty who take a PhD candidate rather than a Masters student on a 3-year research grant.
- Up to 8 awards per year.
- Faculty members apply at the time they are writing their research proposals.

Dean's Excellence Engineering Doctoral Scholarships



McMaster University
ENGINEERING

12 Dean's Excellence Engineering Doctoral Scholarships

PhD SCHOLARSHIPS \$127,500 EACH*

- for incoming new PhD students as of September 2015
- minimum value of \$127,500 over 4 years

EARLY APPLICATION DEADLINE JANUARY 30th
FINAL DEADLINE (subject to availability of scholarships): April 30th

We invite exceptional applicants to McMaster Engineering PhD programs who want to be mentored by the best researchers... and who want to transform the world.

www.eng.mcmaster.ca

*Canadian citizens and permanent residents

- A three year award to new domestic PhD candidates showing academic and research excellence; minimum value of \$127,500 throughout the program.
- Up to 12 awards per year; 6 were awarded for 2015.

6 Scholarships @ \$127,500 were awarded for 2015 :

- Mark Armstrong – Computing & Software
- Isobel Bicket – Materials Science & Engineering
- Eric Mahoney – Biomedical Engineering
- Sara Rahmani – Chemical Engineering
- Mitchell Robson – Engineering Physics
- Eric Salt – Mechanical Engineering

New Gender Equity in Engineering Travel Award

- The aim is to stimulate energetic graduate students who wish to bring new, innovative ideas to the faculty on the issues of gender equity and equality by providing them with financial assistance while attending conferences or workshops on such issues.
- Four awards, each valued up to \$3000 for travel expenses.
- First competition was held November 2014 for conference travel during 2015; two awards were granted.

Dean's Excellence Entrance Scholarships and Undergraduate Summer Student Research Awards

Dean's Excellence Entrance Scholarships

- 4 @ \$10,000 + 24 @ \$7,500 = 28 scholarships awarded on the basis of *academic excellence, leadership skills* and *strong extracurricular and/or community involvement*
- 'Scholars Interview Day': Visit to campus, interview process and special luncheon

Undergraduate Student Summer Research Awards

- 100 full-time, paid research positions offered to incoming McMaster Engineering undergraduate students to be held from May to August 2016

Hatch Scholarships: 2 @ \$48,000

Schulich Leader Scholarships: 2 @ \$80,000

RESULT: 44% of the 41 students who accepted the offer of a Scholarship and/or a Research Award were women. The average admissions average for all 41 students was 95.6%.

Engineering Recruitment Office – Outreach & Engagement

Engage prospective students with the McMaster Engineering community virtually online, at external events, and on campus through pivotal interactions with faculty, staff and engineering student ambassadors.

WEBSITE (www.eng.mcmaster.ca/future)	2012/2013	2013/2014	2014/2015
Total Visits	10,792	19,931	23,393
Unique Visitors	6,697	13,420	17,291

VIDEOS (YouTube; Vimeo)	Nov. 1, 2013	Nov. 1, 2014	Nov. 1, 2015
Total Active Videos	33	38	42
Total Views	27,819	41,003	65,709

Engineering Recruitment Office - Outreach & Engagement (cont'd)

Engage prospective students with the McMaster Engineering community virtually online, at external events, and on campus through pivotal interactions with faculty, staff and engineering student ambassadors.

EVENT	2013/2014 – Total No. of Visitors specific to Engineering (campus-wide/overall event)	2014/2015 – Total No. of Visitors specific to Engineering (campus-wide/overall event)
Ontario Universities' Fair	2,160 (121,000)	2,340 (130,000)
Engineering Olympics	1,495	1,421
Fall Preview Open Houses	2,010 (8,000)	2,550 (10,480)
McMaster Engineering Tours	98	187
May@Mac Open House	508 (7,800)	410 (8,264)
Grad Studies Fair @ U of T	151 (500)	205 (460)
Engineering Grad Studies Coffee Houses	128 registered of 150 total	97 registered of 120 total

Engineering Recruitment Office - Outreach & Engagement (cont'd)

Engage prospective students and key influencers (parents and high school teachers) with the McMaster Engineering community virtually online, at external events, and on campus through pivotal interactions with faculty, staff and engineering student ambassadors.

CAMPAIGN/ACTIVITY	2013/2014 – Total	2014/2015 – Total
Mail Campaigns to High Schools (Fall & Winter) – Program Guide & Scholarships Poster	1,900	2,147
E-blast Campaigns	21,811 (e-mails to applicants)	22,903 (e-mails to applicants)
Mail Campaign to Students who received offer	1,868	1,426
Phone Inquiries	1,525	1,166
Facebook Reach (Page Likes)	451	591

Engineering Recruitment Office - Outreach & Engagement (cont'd)

Organized **special initiatives** on-campus for target audiences, with a strategic focus on students who have received an offer of admission (March Break Tours; 'A Day in the Life of a Mac Engineer'; 'Women in Engineering Discovery Day'; Academic Achievement Reception; Engineering Experience Weekend (EEW); and Scholars' Interview Day for Dean's Excellence Entrance & Hatch Scholarships and Undergraduate Research Awards).

Intake Year	Fall 2014	Fall 2015
Prospective Students Hosted On-Campus	235	281
Accepted Offer of Admission	111	137
Success Metric - Yield	47.2%	48.8%
Prospective Female Students Hosted On-Campus	50	87
Accepted Offer of Admission	30	42
Success Metric - Yield	60.0%	48.3%

Student Experience / Student Engagement

We are preparing engineering students for the 21st century. We are:

Building Thinkers (new in 2016)

- Thought Leaders seminar series
- Education for the “Whole Engineer”

Building Leaders

- MacChangers / WorldChangers (new in 2015)
- SELECT Leadership Development Series
- Industry-facilitated professional development series, supported by 50 alumni/industry partners

Building Community

- Engineering Living Learning Residence Community (new in 2016)

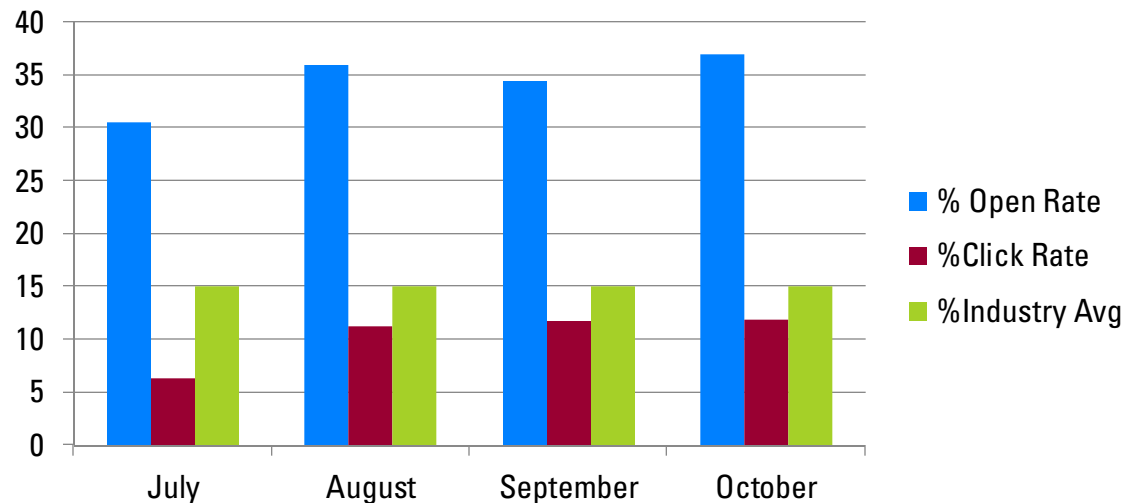
Marketing & Communications

Raising the profile of McMaster Engineering by highlighting research, attracting top tier students and the accomplishments of students, faculty members, alumni and staff are at the core of the Faculty's communication and marketing efforts.

- More stories were posted to the McMaster Engineering website in 2015 (121 stories) compared to 2014 (45 stories) (January to October). Consumption of news content surged by 63% to 32,670 page views compared to 20,016. We have continued to update the look of homepage, including adding a new carousel, events calendar and social media icons.
- A website redevelopment committee was struck and set the framework for a total redesign for the Faculty website. A website development company has been retained and work will begin early next month.
- The Faculty's social media presence grew substantially in 2015. The number of Facebook fans has nearly doubled and Twitter followers has increased by 46% in 2015 (January to October).

Marketing & Communications (cont'd)

- Three Faculty Development Academy sessions on media relations and social media were held to train faculty members and staff.
- Faculty and students featured in more than 30 stories in news outlets and more than 230 websites. (Jan to Oct.).
- A monthly Faculty newsletter was launched in July and has grown from 687 subscribers to 1,606 subscribers with an open rate of 32% (industry open average 15%). The newsletter has enabled the Faculty to reach a targeted global audience.



31st Annual

J.W. Hodgins
MEMORIAL LECTURE



The Purpose of Higher Education

Dr. Peter Kilpatrick
McCloskey Dean of Engineering, Notre Dame
Tuesday, March 10, 2015

CaféX

PERCOLATING IDEAS

- **Sanjeev G. Shroff**, Distinguished Professor of Bioengineering, University of Pittsburgh - September 2014
- **Danielle Zyngier**, Optimization Specialist, Hatch - October 2014
- **Tim J. Nohara**, President & CEO, Accipiter Radar Technologies Inc. - January 2015
- **J. Paul Santerre** (PhD '90 Chemical Engineering), Professor, Faculty of Dentistry and Institute of Biomaterials & Biomedical Engineering, University of Toronto - March 2015
- **Ann Cavoukian**, Executive Director of the Privacy and Big Data Institute, Ryerson University - April 2015
- **Raffaella De Vita**, Associate Professor, Biomedical Engineering and Mechanics, Virginia Tech. - September 2015
- **Karim Lakhani** (B.Eng.M '93 Electrical Eng) Associate Professor, Technology & Operations Management Unit, Harvard Business School - April 2015
- **Nicholas Brathwaite** (Class of '82) Co-Founder & General Partner at Riverwood Capital - October 2015

Engineering Alumni

Our goals:

- Support McMaster University & the Faculty of Engineering
- Involve Engineering Alumni & Students
- Identify Engineering Alumni Achievements
- Communicate with Engineering Alumni

During 2015:

22 Alumni events

- 457 engineering alumni attended
- 1,572 total attendees, including 85 faculty members

Global Visits

- Hong Kong, San Francisco and Notre Dame University

MacEngineer

- New look
- Sent to over 10,000 alumni



Active Alumni: 16,096

Lost Alumni: 1,294

Active Emails: 11,761

Engineering Alumni (cont'd)

Our graduates

- 18,150 Engineering Alumni, a 5% increase from last year
- 2,613 Alumni have earned more than one Engineering Degree
- 20,753 Engineering Degrees and 799 Bachelor of Technology earned to date



Engineering Alumni Fundraising

- A total of \$1,639,011 was given by Engineering Alumni
- 843 Engineering alumni gave
- 131 were first time donors (excludes MacLab)
- The average gift given was \$174.77 (excludes 3 large gifts over the \$25,000 annual giving threshold)

New initiatives: young alumni professional development events, student-alumni mentoring program

Engineering Alumni (cont'd)

Café E-Xpress

MORNING LECTURE SERIES



- **Tim Valters**, Mechanical Eng. & Mgmt. '90 – September 2014
- **Dr. James Cotton**, Professor, Mechanical Engineering – November 2014
- **Dr. Michael Noseworthy**, Director School of Bioengineering – December 2014
- **Dr. Kathryn Grandfield**, Assistant Professor, Materials Science & Engineering – February 2015
- **Dr. Mark Lawford**, Professor, Dept. of Computing & Software – March 2015
- **Dr. Art Heidbrecht**, Director, Walter G. Booth School of Engineering Practice – April 2015
- **Dr. Hubert De Bruin**, Professor, Electrical and Computer Engineering – September 2015
- **Dr. Neslihan Dogan**, Assistant Professor, Materials Science and Engineering – October 2015

Engineering Youth Outreach

Our goals:

- Excite and inform young people (grades 1-12) about science, technology and engineering to inspire them to choose education and careers in STEM disciplines
- Reach out to under-represented youth populations: young women and girls, Aboriginal students, inner-city neighbourhoods
- Offer diverse programming including summer camps, travelling workshops, overnight camps

Our impact - 2015

- 21,307 students through outreach initiatives including
 - 3,768 aboriginal students through travelling workshops
 - 667 Toronto region students through travelling workshops

Engineering Youth Outreach (cont'd)

Our impact – 2015

- 51 Undergraduate McMaster Students gained skills through summer co-op positions
- 53 High School students attended a Junior Counsellor Leadership Conference
- 43 Scholarships for girls in grades 7 to 10
- 2-day STEM Conference (Science, Technology, Engineering and Math) for 136 Aboriginal Students
- Hosted an overnight conference for 47 girls in grades 9 and 10 and provided ten entrance scholarships to McMaster Engineering

New Initiatives in 2015

- Reached 113 students through the Codemakers program for students entering grades 6 to 8
- Reached 60 female students through the Yes SHE Can! program designed for girls entering grades 6 to 8

Won the Readers' Choice Diamond Award for Best Summer Camp in Hamilton

Watch for these new initiatives: Yes SHE Can Camp, Aboriginal Camp @ McMaster University, Codemaker Camp, additional scholarships for girls, new LEAP streams e.g., Engineering Physics and Codemaker

Faculty and Staff Transitions

Faculty Retirements

Rafik Lotfy, Walter G. Booth School for Engineering Practice

Staff Retirements

Justyna Derkach, Chemical Engineering

Lynn Falkiner, Chemical Engineering

Jozef Verhaeghe, Mechanical Engineering

New Faculty Positions

Jonathan Bradley, Engineering Physics

Greig Mordue, Walter G. Booth School for Engineering Practice and the Department of Economics

Oleg Rubel, Materials Science and Engineering

New Staff Positions

Delica Aguiar - Accounting & Academic Assistant, ECE - November 2014

David Acciaroli - Information Technology Analyst, ECE - November 2014

Michelle Whalen - Administrative Assistant (Academic) II, Chemical - November 2014

Sarah Sullivan - Administrative Assistant (Academic) II, Civil - December 2014

Brennan Conry - Recruiting & Promotion Co-ordinator, Outreach - January 2015

Monique Beech - Marketing & Communications Strategist, Outreach - January 2015

Linda Ellis - Administrative Assistant (Academic) II, Chemical - January 2015

Yvonne Maidment - Administrator, SEP - March 2015

Tina Thorogood - Administrative Co-ordinator, Biomedical - March 2015

Joy Coomber - Financial Administrative Assistant, Engineering - April 2015

Kyla Whelan - Advancement Co-ordinator, Outreach - April 2015

Dan Wright - Electronic Technologist, Mechanical Engineering - May 2015

Hannah Abram - Administrative Assistant (Academic) II, Materials - June 2015

New Staff Positions (cont'd)

Timothy Stephens - Laboratory Technician, Chemical - June 2015

Christine Larabie - Recruiting & Promotion Co-ordinator, BTech - June 2015

Adam Pepler - Career Development & Relationship Manager (Grad) - July 2015

Joel Roelevled - Research Engineer III, Mechanical - September 2015

Zhilin Peng - Research Engineer III, Engineering Physics - September 2015

Valerie Hillman - Recruiting & Promotion Co-ordinator, BTech - September 2015

Louise Gazzola - Experiential Program Co-ordinator, Outreach - October 2015

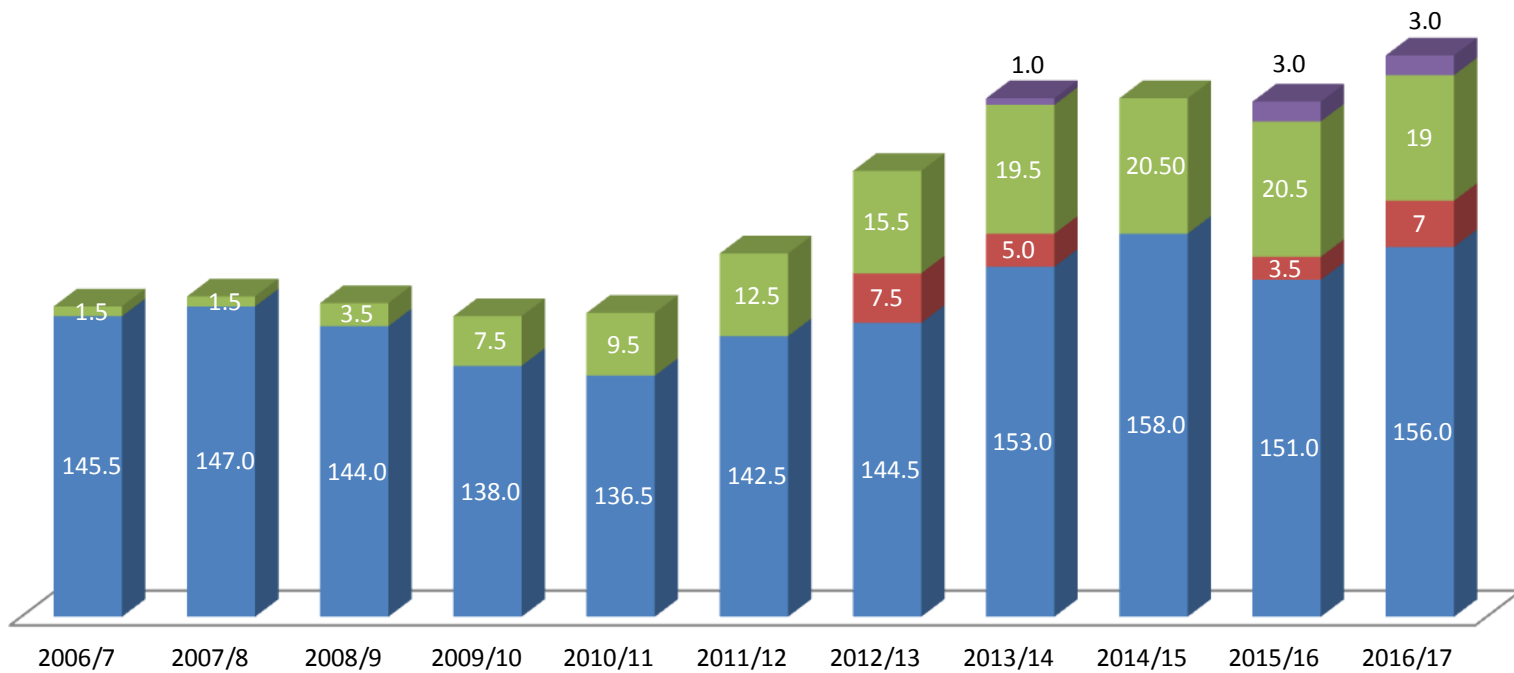
Cristina Rizzardo - Recruiting & Promotion Co-ordinator, Engineering Physics - October 2015

Daniel Picone - Recruiting & Promotion Co-ordinator, Outreach - November 2015

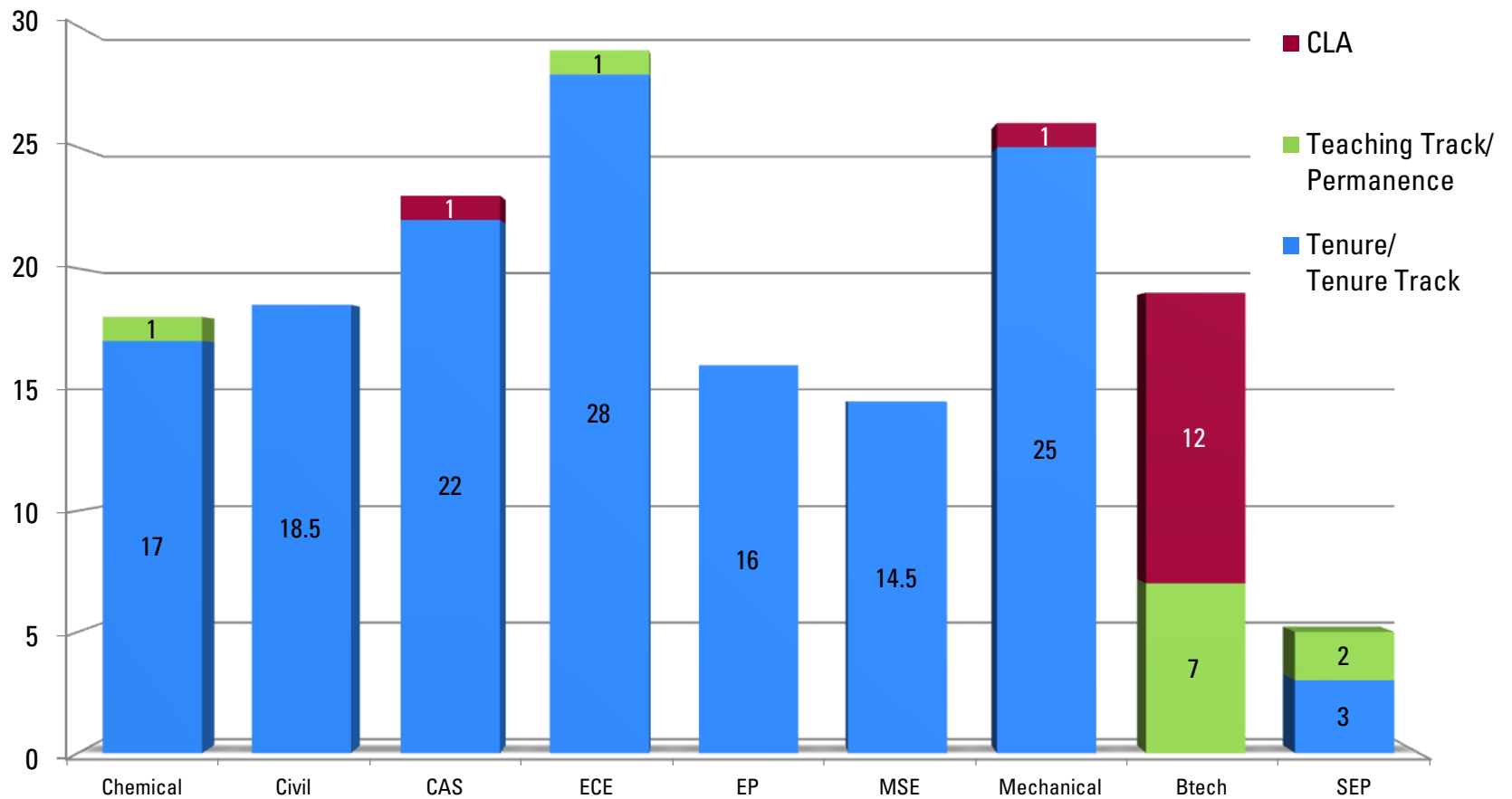
Melissa Pyefinch - Administrative Assistant, Alumni - November 2015

Approved Faculty FTE (including CLA)

■ Engineering ■ Vacancy ■ Btech ■ Btech vacancy



2015 Faculty FTE by Department



Major Research Initiatives – CFI JELF/MRI ORF RI

2015	Tracy Becker and Lydell Wiebe	Next-generation Structure Systems for Seismic Protection of Infrastructure
2015	Fei Chiang	Infrastructure for Continuous Privacy Preserving, Data Cleaning at the McMaster Data Science Lab
2015	Qiyin Fang	Intelligent Home Sensors Network for the Elderly
2015	Kathryn Grandfield	Advanced Characterization of Biomaterials
2015	David Latulippe	Micro-scale Separations and Analysis Suite (MSAS) for Bio-processing and Environmental Applications
2015	Stephen Velduis	Hybrid PVD Coating System

NSERC Competition Success Rate

NEW DISCOVERY GRANTS

YEAR	McMASTER ENGINEERING				McMASTER			
	TOTAL # Requested	AWARDED			TOTAL # Requested	AWARDED		
		#	%	Avg \$		#	%	Avg \$
2010	27	20	74	35,500	91	64	70	37,094
2011	35	26	74	31,796	101	65	64	36,536
2012	36	28	78	28,107	100	67	67	32,903
2013	42	35	83	29,257	111	73	66	34,452
2014	34	25	74	28,840	101	73	72	36,123
2015	25	20	80	32,000	95	70	74	37,121

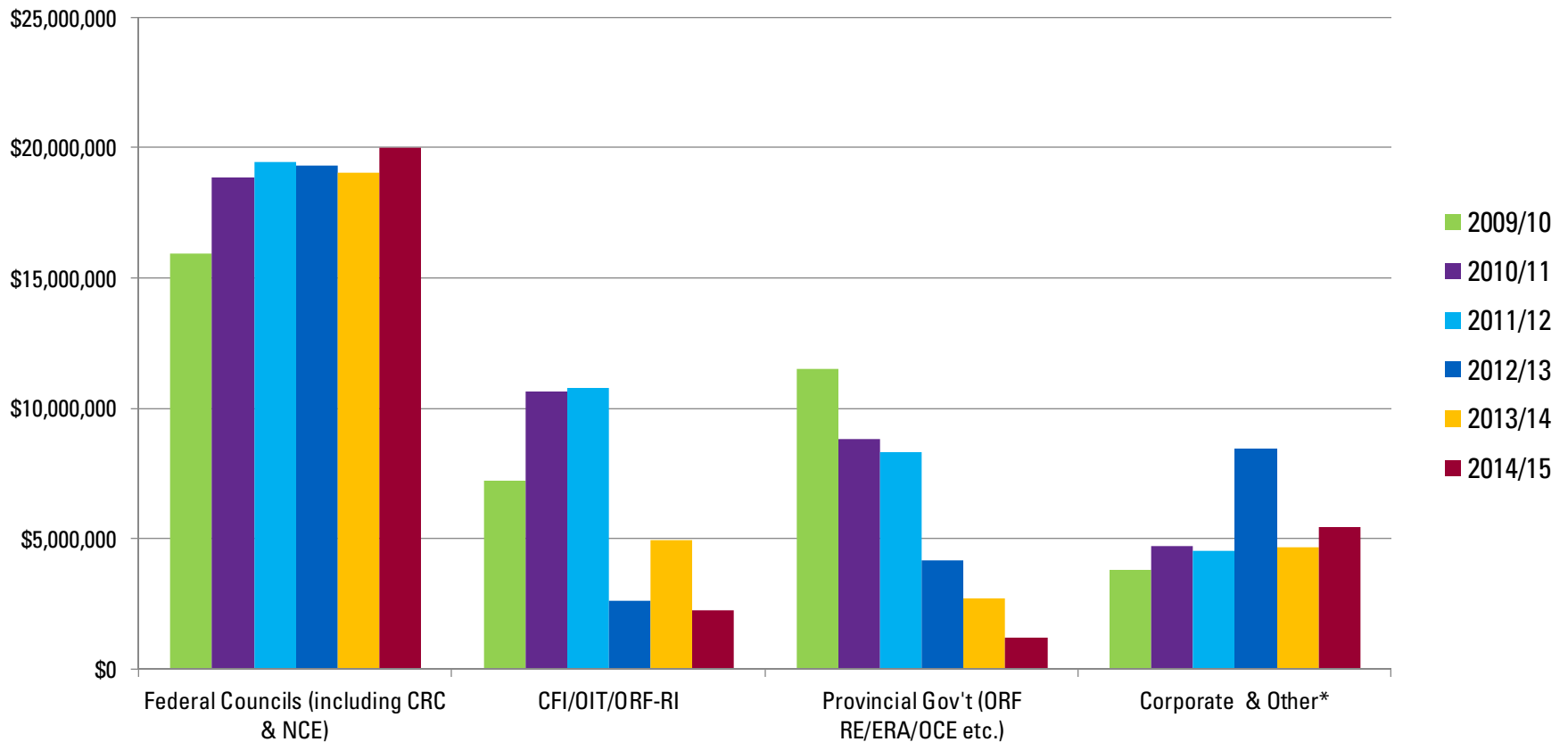
NATIONAL
%
58
58
62
59
64
65

RTI GRANTS

	2014-2015						2014-2015		2013-2014	
	Total Requested		Total Awarded		Success Rate		Success Rate		Success Rate	
	#	\$	#	\$	#	\$	#	\$	#	\$
Engineering	12	\$1,619,182	4	\$581,949	33%	36%	44%	44%	44%	53%
McMaster	23*	\$2,772,171	9	\$1,113,395	39%	40%	38%	36%	35%	34%
National average					33%	34%	34%	34%	23%	24%

*The funding envelope for NSERC's RTI program was reduced in 2014. Consequently, NSERC gave each university an application quota. McMaster's quota for the 2015 competition was 23.

Faculty of Engineering - Research Funding



*Other - Crown Corps/APC/Foreign Gov't/nonprofits/Hospital/other

Faculty Honours Received in 2014

Faculty of Engineering Research Achievement Award

Shiping Zhu, Professor, Department of Chemical Engineering

Faculty of Engineering Teaching Excellence Award

Dan Centea, Program Chair, Department of Automotive & Vehicle Technology, School of Technology

Canada Research Chairs

- **Jamal Deen**, Information Technology, NSERC
- **Younggy Kim**, Water and Health, NSERC
- **Heather Sheardown**, Ophthalmic Biomaterials and Drug Delivery Systems, NSERC

Honoric McMaster Engineering Awards

Distinguished Engineering Professors

Thia Kirubarajan, Professor, Electrical and Computer Engineering - July 1, 2014 to June 30, 2019

Xiaolin Wu, Professor, Electrical and Computer Engineering - July 1, 2014 to June 30, 2019

Igor Zhitomirsky, Professor, Materials Science and Engineering - July 1, 2014 to June 30, 2019

Joseph Ip Distinguished Engineering Fellows

July 1, 2015 to June 30, 2018:

Tom Adams, Chemical Engineering

Emily Cranston, Chemical Engineering

Rong Zheng, Associate Professor, Computing and Software

Jun Chen, Associate Professor, Electrical and Computer Engineering

July 1, 2014 to June 30, 2017:

Todd Hoare, Professor, Chemical Engineering

Andy Knights, Professor, Engineering Physics

Ray LaPierre, Professor, Engineering Physics

Distinguished Engineering Educator

Nicola Nicolici, Professor, Electrical & Computer Engineering - July 1, 2014 to June 30, 2019

Teaching Awards

- **Robert Fleisig**, President's Award for Outstanding Contributions to Teaching & Learning
- **Michael Justason**, MSU Teaching Award
- **David Latulippe**, MSU Teaching Award
- **Lydell Wiebe**, MSU Teaching Award

Noteworthy Research Awards

- **Tracy Becker and Lydell Wiebe**, \$338,561 Canadian Foundation for Innovation Award
- **Ian Bruce, Sue Becker and Larry Roberts**, \$300,000 Canadian Foundation for Innovation Award
- **Fei Chiang**, \$49,400 Canadian Foundation for Innovation Award
- **Ken Coley, Neslihan Dogan and Gordon Irons**, \$565,903 NSERC Strategic Project Grant
- **Emily Cranston**, Ontario Early Researcher Award
- **Neslihan Dogan**, \$160,000 Canadian Foundation for Innovation Award
- **Qiyin Fang**, \$50,000 Ontario Centres of Excellence Grant
- **Carlos Filipe, Ali Ashkar and Sana Jahanshahi-Anbuhi**, \$100,000 Grand Challenges Canada Stars in Global Health
- **Raja Ghosh and David Latulippe**, \$60,000,000 *Network of Centres of Excellence team devoted to cancer research*

Noteworthy Research Awards (cont'd)

- **Todd Hoare**, \$270,500 NSERC Strategic Project Grant; McMaster University Scholar
- **Adrian Kitai**, \$25,000 NSERC Engage Grant
- **Rafael Kleiman**, \$120,000 NSERC Discovery Grant and Discovery Accelerator Supplements; \$999,850 Canadian Foundation for Innovation-ORF Award
- **Ray LaPierre**, \$125,000 NSERC Idea to Innovation Grant
- **David Latulippe**, \$80,000 Canadian Foundation for Innovation Award
- **Shinya Nagasaki**, \$63,756 NSERC Collaborative Research and Development Grant
- **David Novog**, \$150,000 NSERC Collaborative Research and Development Grant
- **Ishwar Puri**, \$196,770 Canadian Foundation for Innovation Award
- **Nigel Schofield**, \$99,468 Canadian Foundation for Innovation Award
- **Ravi Selvaganapathy**, \$200,000 Canadian Foundation for Innovation Award
- **Shahin Sirouspour**, \$120,000 NSERC Discovery Grant and Discovery Accelerator Supplements

Professional Associations, Societies & Awards

- **Nafia Al-Mutawaly**, Mohawk President's Award
- **Gianluigi Botton**, Fellow of the American Microscopy Society
- **John Brash**, Indian Society for Biomaterials and Artificial Organs - Chandra P. Sharma Award
- **Ken Coley**, Fellow of the Canadian Institute of Mining, Metallurgy and Petroleum (CIM); 2014 Best Paper Award, Canadian Metallurgical Quarterly
- **Ken Coley, Gord Irons, Matthew King & Tai Xi Zhu**, TMS, Extraction and Processing Division Science Award
- **Jamal Deen**, President of The Academy of Science, Royal Society of Canada; European Academy of Sciences and Arts
- **Antoine Deza**, Fields Institute Fellow, University of Toronto
- **David Embury**, Acta Materialia Gold Medal Award

Professional Associations, Societies & Awards - cont'd

- **Ali Emadi**, Founding Editor-in-Chief, IEEE Transactions on Transportation Electrification
- **Hoda Kamel**, Membership Chair for the International True Colors Association Board
- **Hassan Kojori**, Fellow of the IEEE
- **Allan MacKenzie**, Professional Manager Designation, Canadian Institute of Management; Certified Human Resources Leader Designation, Human Resources Professional Association
- **Heather Sheardown**, Fellow of the Canadian Academy of Engineering
- **John Vlachopoulos**, Fellow of the Canadian Academy of Engineering; Bruce Maddock Award, Extrusion Division of the Society of Plastics Engineers; SABIC Lectureship Award
- **Shiping Zhu**, Fellow of the Royal Society of Canada

Staff Awards

- **Louise Gazzola, Lynn Stewart and Saiedeh Razavi** - Heavy Construction Internship Program, Dean's Team Excellence Award
- **Paul Gatt, Veronika Czerneda** Staff Award
- **Paula Gremmen**, McMaster Health and Safety Award of Excellence
- **Doris Stevanovic**, McMaster Health and Safety Award of Excellence
- **Dan Wright**, President's Award for Outstanding Service

Student Successes

- **Michael Chatzidakis**, University of Notre Dame Undergraduate Nanotech Research Competition, second place
- **Ephrem Chemali and Lucas McCurlie**, MATLAB and Simulink Student Design Challenge, second place
- **Michael Diggins**, MAPS Gold Medal
- **Rotimi Fadiya**, Scotiabank Scholar
- **Zuriel Garcia**, William H. Becker Honorary Scholarship, American Railway Engineering & Maintenance-of-Way Association
- **Frances Lasowski**, Claudette MacKay-Lassonde Graduate Scholarship, Canadian Engineering Memorial Foundation
- **Neil MacPhee, Mike Sucharda, Dan Lee Kim, Trevor Reade and Matt East**, Troitsky Bridge Competition, second place
- **Andrew Norgate**, MAPS Gold Medal
- **Matthew Pinder**, Iroquois Trophy
- **Brady Semple**, CSME Gold Medal Award
- **Dickson Wong**, Chancellor's Gold Medal

Applause and Accolades 2015



Dan Centea, Ishwar Puri, Trueman Goba, Sean Donnelly (Shiping Zhu absent)

Gifts

There were 280 recorded gifts to the Faculty of engineering totalling \$3,243,000

- Bot Engineering \$650,000 nuclear
- Bob Kulperger \$600,000 Student support
- MES \$520,000 MacLAB & Hatch Centre
- Engineering Class '85 Atrium project \$300,000
- Hatch \$218,000 scholarships
- ArcelorMittal Dofasco \$200,000 Chair
- Richard and Kathy Jones \$150,000 Scholarships
- Doug Barber \$150,000 Building Leaders
- Schulich Foundation \$140,000 Scholarships
- Tom Jenkins \$100,000 Scholarships
- Don Woods Lectureship \$100,000
- Toyota \$100,000 Software
- Cam Crowe \$75,000 Lab improvements
- PEO Foundation \$70,000 Scholarships
- Paul DiNovo \$65,000 Scholarship
- Petro Canada \$30,000
- Air Liquide \$25,000 student support

The Gerald Hatch Centre for Engineering Experiential Learning

- Toronto-based Diamond Schmitt Architects (DSA) is the Prime Consultant responsible for overseeing the new building.
- Aquicon Construction Co. Ltd. is the general contractor.
- Ground breaking ceremony was held on October 7, 2015. Construction began soon afterward; the building is expected to open by April 2017.
- CFI Research Infrastructure Grant awarded for research on community integrated energy systems and energy harvesting, creating research opportunities for faculty members as well as opportunities for student research and in-class experiential learning.
- Hatch Centre will act as a hub for student clubs, teams, and student-led experiential learning.

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Engineering Operating Spending Distribution
2014-2015 Fiscal Year Total: \$53,925,560
(Excludes Specifically Funded)

