RESEARCH AT McMaster University

Presentation to Senate
Rob Baker, Vice-President, Research
November 9, 2016
McMaster’s Research Enterprise

- Among Canada’s top research universities with a sponsored research income of nearly $325 million (ranked 8th in Canada)

- Ranked 2rd in Canada in research intensity, attracting $358,300 per full-time faculty member (nearly double the national average)

- Ranked in the Top 100 universities in the world by the Academic Ranking of World Universities, 2016

- We are committed to knowledge and technology transfer, partnering with industry, and creating a culture of innovation and entrepreneurship among our researchers and students
<table>
<thead>
<tr>
<th>Source Type</th>
<th>Amount (000s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal: Tri-agencies</td>
<td>$254,887</td>
</tr>
<tr>
<td>Federal - Health Canada, CFI, CRC</td>
<td>$184,776</td>
</tr>
<tr>
<td>Provincial, Municipal, Foreign</td>
<td>$153,973</td>
</tr>
<tr>
<td>Business enterprises</td>
<td>$244,962</td>
</tr>
<tr>
<td>Not for Profit, Individuals</td>
<td>$119,136</td>
</tr>
</tbody>
</table>

3 Year Total = $957,734,00

Source: CAUBO
Total Sponsored Research Income

Source: CAUBO Financial Information of Universities & College
https://www.caubo.ca/knowledge-centre/surveysreports/fiuc-reports/
Tri-Agency Market Share
(funding as per agency search engines)

Tri-Agency % share (of total $)

<table>
<thead>
<tr>
<th>Year</th>
<th>McMaster</th>
<th>UBC</th>
<th>McGill</th>
<th>UofT</th>
<th>Waterloo</th>
<th>Western</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 10-11</td>
<td>14.0%</td>
<td>9.0%</td>
<td>8.0%</td>
<td>4.0%</td>
<td>2.0%</td>
<td>1.0%</td>
</tr>
<tr>
<td>FY 11-12</td>
<td>14.0%</td>
<td>9.0%</td>
<td>8.0%</td>
<td>4.0%</td>
<td>2.0%</td>
<td>1.0%</td>
</tr>
<tr>
<td>FY 12-13</td>
<td>14.0%</td>
<td>9.0%</td>
<td>8.0%</td>
<td>4.0%</td>
<td>2.0%</td>
<td>1.0%</td>
</tr>
<tr>
<td>FY 13-14</td>
<td>14.0%</td>
<td>9.0%</td>
<td>8.0%</td>
<td>4.0%</td>
<td>2.0%</td>
<td>1.0%</td>
</tr>
<tr>
<td>FY 14-15</td>
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<td>9.0%</td>
<td>8.0%</td>
<td>4.0%</td>
<td>2.0%</td>
<td>1.0%</td>
</tr>
</tbody>
</table>
Academic Rankings of World Universities

Shanghai Jiao Tong University

Toronto
UBC
McGill
McMaster

Research
McMaster University
HECQO Research Intensity

Rank

Intensity

McMaster
Main Responsibilities of the OVPR

- Lead and develop the strategy for the research portfolio
- Advocate and promote on behalf of the University on all matters related to the research portfolio
- Administration and oversight
The Research Portfolio at McMaster University

Vice-President, Research

Office of the Vice-President Research
- AVP Research Partnerships
- AVP Research
- Awards & Honours
- Research Ethics Boards
- Interdisciplinary Funds

More than 100 staff support the research efforts of McMaster’s faculty

ROADS
MILO
RHPCE
Research Finance
McMaster Nuclear Reactor
Research Centres and Institutes

- More than 70 research centres and institutes pursuing new opportunities in strategic areas where we have already made significant strides.
- Many of these research units are engaged with industry to move research out of the lab and into communities where it can change lives for the better.
- Our research institutes span the disciplines and most are inter-and multi-disciplinary.
- Dozens of partnerships with the international research community, sharing and disseminating research results.
McMaster Innovation Park

- a premier 37 acre research park, offers collaborative space for researchers and entrepreneurs alike; celebrating 10 years of success
- includes federal research lab (Canmet Materials Lab) and 92,000 square-foot, state-of-the-art McMaster Automotive Resource Centre (MARC) – home to Canada’s only CERC in Hybrid Powertrain
- MARC houses industry-scale labs, classrooms and equipment to prototype vehicles of the future ($26M project, employs 120+)
- Fraunhofer Project Centre in Biomedical Engineering and Advanced Manufacturing “BEAM” ($33 Million project)
Commitments

- Commit to serving all Faculties
- Consult on a regular basis
- Be open and transparent wherever possible
- Follow the lead of the Deans
- Do all components of the job
What’s next . . .

- Clarify the roles of the OVPR and other offices
- Strategic Research Plan
- Advancement
- Processes/support for large grant applications
- Prizes & Awards
- Leveraging Discretionary Support; Interdisciplinary Opportunities
THANK YOU FOR YOUR TIME QUESTIONS?