Overview of Research at Memorial University
2010-2016

Dr. Richard Marceau
Vice-President (Research)

Revised September 14, 2016
Overview

• Research Metrics
  • Research Grants and Contracts
  • Technology Transfer and Commercialization
  • Research Chairs
  • Graduate Programs
  • Graduate Students
  • Scholarly Dissemination

• VPR Portfolio Metrics
  • Research Grant and Contracts
  • CREATI
  • Animal Care
  • Technical Services

• Key Research Enablers
• Key Research Investments
• Key Research Partners
• VPR Objectives 2016-17
• Conclusion
Research Grants and Contracts
**Research Grants and Contracts:**
**Total Applications and Funding**

$ from -2.1% to -0.8% per year post SRIP

<table>
<thead>
<tr>
<th>Year</th>
<th>Research Funding Awarded</th>
<th>Number of Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010/11</td>
<td>$97,870,883</td>
<td>1,328</td>
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<td>2011/12</td>
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<td>2014/15</td>
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<tr>
<td>2015/16</td>
<td>$90,267,032</td>
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</tbody>
</table>

SRIP Baseline

Graph showing linear trends for Research Funding Awarded and Number of Applications from 2010/11 to 2015/16.

Legend:
- Blue line: Research Funding Awarded
- Orange line: Number of Applications
- Dashed blue line: Linear (Research Funding Awarded)
- Dashed orange line: Linear (Number of Applications)
Research Funding per Application*

* Based on Total Applications
Tri-Agency Grants: Total Applications and Funding

$: from -6% to +8.2% per year post SRIP

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding Awarded</th>
<th>Applications</th>
</tr>
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<tbody>
<tr>
<td>2010/11</td>
<td>$18,529,282</td>
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<tr>
<td>2011/12</td>
<td>$17,711,368</td>
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<tr>
<td>2012/13</td>
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<td>2013/14</td>
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<td>2014/15</td>
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<td>2015/16</td>
<td>$18,070,052</td>
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</table>

SRIP Baseline

Funding Awarded: 306, 353, 290, 315, 284, 308
Tri-Agency Funding per Application*

* Based on Total Applications

$ per Application: from -6.7% to +9.4% per year post SRIP
Memorial vs Select Universities

Sponsored Research Revenue (CAUBO): Memorial +19% post SRIP

Comparable Data Range Begins

SRIP Baseline
Technology Transfer and Commercialization
Technology Disclosures

Disclosures: from 12.3 to 14.3 average per year post SRIP

Comparable Data Range Begins

SRIP Baseline
Patent Applications, Patents Issued and Patent Files in Progress

Applications: from 3.3 to 9.3 av. per year; Issued: from 1 to 3.7 av. per year; In Progress: from 36 to 42.7 av. per year post SRIP
Disclosures and Patent Applications per M$ Grants and Contracts

Disclosures per M$: from 0.12 to 0.13 average per year; Patent Applications per M$: from 0.03 to 0.087 average per year post SRIP

Comparable Data Range Begins

SRIP Baseline

Disclosures per M$

Patent Applications per M$

Linear (Disclosures per M$)

Linear (Patent Applications per M$)
Licenses

Licenses: from 2 to 12.3 average per year post SRIP
Genesis Centre: New Start-ups

New start-ups: from average of 3.3 to 4.3 per year post SRIP

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<tr>
<th>Year</th>
<th>Total Startups</th>
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<td>2015/16</td>
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</table>

**Comparable Data Range Begins**
- Solace Power
- Grey Island Energy (AFININ)
- Celcius Game Studio
- Unified Softworx
- SubC Control (Via Link)
- Whitecap Scientific (Research Ave)
- (Extr Ocean)

**SRIP Baseline**
- C-Blue
- Agile Sensor Tech.
- ARC Instruments
- Hey Orca
- Empowered Homes
- NOCLAND Bus
- Vish Solutions
- Seamatica
- Sequence Bio
- Odd Couple

**MUN Startup (IP)**
- MUN Startup (No IP)
Research Chairs
Canada Research Chairs (Allocated) and Other Research Chairs

Total: from +4.5% to +6.1% per year post SRIP Baseline

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>CRC (Allocation)</th>
<th>Other Chairs</th>
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<th>Linear (CRC (Allocation))</th>
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<td>2015/16</td>
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Graduate Programs
Graduate Programs

Total: from 1.6% to 2.6% per year post SRIP
Graduate Students
Graduate Student Enrolment

Total: from +5% to 2.5% per year post SRIP; Research Students: from +6.3% to 7.5 per year post SRIP
Doctoral Enrolment*

*Combined full time and part time enrolments

Doctoral: 8.5% per year post SRIP (+6.3% per year 12-year trend)
Scholarly Dissemination
Publications Index*

From +5% to +6.1% per year post SRIP

* Average of two bibliographic database software: Scopus and Web of Science
VPR Portfolio Metrics
Research Grants and Contracts
New and Completed Files per Month:
External Grants

Number of Files

<table>
<thead>
<tr>
<th>Month</th>
<th>New</th>
<th>Completed</th>
<th>Remaining at end of Month</th>
<th>Linear (Remaining at end of Month)</th>
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New and Completed Files per Month: Internal Grants
### New and Completed Files per Month: Contracts

<table>
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<tr>
<th>Month</th>
<th>New Files</th>
<th>Completed Files</th>
<th>Total Active</th>
<th>Linear (New Files)</th>
<th>Linear (Total Active)</th>
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<td>16</td>
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</tr>
</tbody>
</table>

Note: The graph above shows the trend of New Files, Completed Files, Total Active, Linear (New Files), and Linear (Total Active) from July 2014 to June 2016.
Average and Percentile Time to Completion (Contracts) per Month
CREAIT Network
CREAIT Laboratory Users

Students: +0% in prior years; +8.8% from SRIP Baseline; Externals: +17.7% in prior years; -10% from SRIP Baseline; Total: +5.7% in prior years; +1.4% from SRIP Baseline
CREAIT User Fee Revenues: 
Internal and External Revenues

Internal: +0% in prior years; -15% from SRIP Baseline; External: -45% in prior years; +84% from SRIP Baseline
Total: -18% in prior years; + 10% from SRIP Baseline

<table>
<thead>
<tr>
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<th>2011/12</th>
<th>2012/13</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
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<tbody>
<tr>
<td>Internal Revenue</td>
<td>$412,680</td>
<td>$444,029</td>
<td>$552,062</td>
<td>$502,169</td>
<td>$608,751</td>
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<td>External Revenue</td>
<td>$259,124</td>
<td>$309,570</td>
<td>$408,804</td>
<td>$428,407</td>
<td>$345,218</td>
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<td>Total</td>
<td>$671,804</td>
<td>$753,599</td>
<td>$930,576</td>
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SRIP Baseline

<table>
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<th></th>
<th>2011/12</th>
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<td>$753,599</td>
<td>$930,576</td>
<td>$930,576</td>
<td>$930,576</td>
</tr>
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</table>
Animal Care
PI Users of Animal Care Services

Faculty +9%; Protocols +1% from SRIP Baseline

SRIP Baseline
Animal Days in Animal Care Facilities

Total -14% in prior years; +1.1% from SRIP Baseline
Animal Care User Fee Revenue

Total -23% in prior years; +3.6% from SRIP Baseline
Technical Services
Technical Services Work Orders

Total -13% in prior years; -9.1% from SRIP Baseline
Technical Services User Fee Revenues

Total +11% in prior years; -9% from SRIP Baseline
Key Research Enablers
Key Research Enablers

1. VPR Portfolio Review (2013)
   • Created a “one stop shop” for grants and contracts
   • Streamlined processes, improved customer service, improved turn-around time (e.g., start-up funding, etc.)

   • In partnership with Glenn Blackwood, an ambitious proposal for developing new academic programs and industrial research chairs at the Marine Institute (including an Action Plan for implementation)
Key Research Enablers

3. Strategic Research Intensity Plan (2014)
   • A comprehensive suite of actions, fully integrated within academic unit activities, aimed at increasing research intensity

   • 25% of all Tri-Agency Research Support funding is now distributed to Faculties, Schools and Campuses
   • A significant enabler of research in academic units
Key Research Enablers

5. COASTS Partnership (2014)
   • Partnership between Public Engagement, all Faculties, Schools and Campuses, and the VPR Portfolio
   • Created traction for the successful multi-partner CFREF through effective public engagement and advocacy

6. Integration of Genesis Research to the VPR Portfolio (2014)
   • A partnership with the VP Finance and Administration
   • Strengthens the management of disclosures and patents
Key Research Enablers

   • Provides 95% of CRC funding for research (not 20%!)
   • Is the most attractive CRC funding package in Canada

8. Strategic Internationalization Plan (2015)
   • A partnership of VPR and former “International Office”
   • Supports recruitment and retention of international students and faculty, and a superior learning environment
   • Contributes to the integration of international students and faculty within Newfoundland and Labrador
Key Research Enablers

   • A “sea change” in Memorial’s approach to IP and bringing it to market
   • At no cost to Memorial: all external funding

10. Renewed Indirect Costs Policy (2016)
    • Indirect Costs Policy at Memorial sets “overheads” at 25%, and can be as low as 12.5%
    • Is the most attractive in Canada for industry partnerships
Key Research Investments
Key Research Investments

1. Research Start-up/Matching Fund – 1 M$ per year (2010)
   • ~400 k$ per year for faculty member start-up funding
   • ~600 k$ per year for 1) matching of federal programs (e.g., CFI) and 2) matching internal initiatives (e.g., Harris Centre, Innovation Ecosystem report, SafetyNet, SSHRC 4A submissions, NEXUS, etc.)

2. Research Portfolio Support Fund – 500 k$ per year (2010)
   • Base funding to grow portfolio personnel due to growth (from 34.9 M$ in 2003 to 72.6 M$ in 2010)
Key Research Investments

3. Labrador Institute – 605 k$ per year (2011)
   • Base funding to grow Labrador-specific research activities
   • Used to leverage an ACOA grant averaging ~500 k$ per year since 2011-2012

4. Scholarship in the Arts Fund – 405 k$ per year (2014)
   • For supporting research in the arts, humanities and social sciences
Key Research Investments

5. Research Framework Funding – 900 k$ and SRIP Funding – 750 k$ per year (2014)
   • University Student Summer Internship Program (USSIP)
   • Memorial Undergraduate Career Experience Program (MUCEP) for Research
   • Seed, Bridge and Multidisciplinary Fund
   • Fogo Island Research Fellowship Pilot Program
   • New Faculty Member award
   • VPR Portfolio Service Improvement
   • Researcher Portal / Grants Facilitation Network
Key Research Investments

6. Stabilization of past Canada Research Chair financials – 800 k$ per year (2014)
   • Required to eliminate deficits related to past Canada Research Chairs due to inadequate financial architecture

   • Strengthens agriculture, forestry and environmental studies
   • 5 new faculty members
Key Research Investments

8. Stabilization of CREAT – 400 k$ per year (2015)
   • Serves over 750 students per year
   • Downsizing of 1 admin FT, 12 FT and 1 PT positions
   • Foundation for sustainability: new fee structure
   • CREAT instrumental in the 2016 creation of the “Canadian Network of Scientific Platforms” for obtaining new operating grants in partnership with other universities

   • For research in genetics patterns and diseases
   • Included CFI (~17 M$) and provincial (~12 M$) funding
Key Research Investments

   • For research, education and testing in ocean tech industry

   • For strengthening research and maintaining accreditation
   • 15 M$ obtained in the Strategic Infrastructure Program

   • Major infrastructure investment (over 400,000 ft²)
   • Key to creation of the Oceans Frontier Institute (2016), a 220 M$ project funded by CFREF (93 M$) in partnership with Dalhousie and UPEI
Key Research Partners
Key Research Partners

- Federal Government
- Provincial Government
- Tri-Agency: NSERC, SSHRC, CIHR
- Atlantic Council Opportunities Agency (ACOA)
- Research & Development Corporation (RDC)
- Genome Canada
- Canada Foundation for Innovation (CFI)
- Compute Canada
- Petroleum Research Newfoundland and Labrador (PRNL)
- Oil and Gas Industry in NL (Chevron, Exxon-Mobil, Hibernia, Husky, Suncor)
- Other industry partners (INCO, Vale, VMT, IOC)
- Philanthropists
- Dalhousie University
- ACENET universities
VPR Objectives 2016-17
VPR Objectives 2016-17: Main Focus

• Continue to implement all approved plans and initiatives (i.e., TTCS, SRIP, VPR Portfolio Renewal)

• Stimulate and support new research chair and major grant proposals

• Partner with all VPs and Deans in renewing research infrastructure and assist in their priorities

• Work with the University’s Senior Executive Team to find operational efficiencies
VPR Objectives 2016-17: Specific Actions

1. Technology Transfer and Commercialization Strategy:
   • Implement actions committed for delivery by May 31, 2017 and track progress

2. Strategic Research Intensity Plan:
   • Implement actions committed for delivery by May 31, 2017 and track progress

3. VPR Portfolio Renewal:
   • Implement actions committed for delivery by May 31, 2017 and track progress
VPR Objectives 2016-17: Specific Actions

4. Research Chair and Major Grant Proposals:
   - Oversee implementation and track progress of the Oceans Frontier Institute NL funded by CFREF
   - Nurture new NSERC Industrial Research Chairs
   - Nurture a new Bio-refinery initiative
   - Nurture a new Agriculture initiative

5. Scholarship:
   - Publish at least one publication (Target: May 31, 2017)

6. VPR Research Metrics:
   - Identify suitable metrics and track progress (Target: August 30, 2016)
Post SRIP, all metrics are positive!
Grants and Contracts

Overall:
• Funding: -2.1% to -0.8% per year
• Funding per Application: -6.3% to -5% per year

Tri-Agency (CIHR, NSERC, SSHRC)
• Funding: from -6% to +8.2% per year
• Funding per Application: -6.7% to +9.4% per year
Technology Transfer

• Disclosures: from 12.3 to 14.3 average per year
• Patent Applications: from 3.3 to 9.3 av. per year
• Patents Issued: from 1 to 3.7 average per year
• Licenses: from 2 to 12.3 average per year
• Start-ups: from 3.3 to 4.3 per year
• Patents per M$: from 0.03 to 0.087 av. per year
Other Research Metrics

- Research Chairs: from +2.3% to 6.1% per year
- Grad Programs: from +1.6% to 2.6% per year
- Research Students (FT, PT): +6.3% to 7.5% per year
- Publications Index: from +5% to +6.1% per year
The best is yet to come!

Thank you for your kind attention!

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Appendix
Grants and Contracts: Active Projects vs Funding

Research Funding Awarded vs Number of Active Research Awards

SRIP Baseline

- 2010/11: $97,870,883, 1,473
- 2011/12: $110,005,229, 1,511
- 2012/13: $101,460,693, 1,353
- 2013/14: $91,619,732, 1,365
- 2014/15: $94,361,637, 1,479
- 2015/16: $90,267,032, 1,400

Research Funding Awarded:
- 2010/11: $60,000,000
- 2011/12: $70,000,000
- 2012/13: $80,000,000
- 2013/14: $90,000,000
- 2014/15: $100,000,000
- 2015/16: $110,000,000

Number of Active Research Awards:
- 2010/11: 500
- 2011/12: 700
- 2012/13: 900
- 2013/14: 1100
- 2014/15: 1300
- 2015/16: 1500
Canada Research Chairs (Active) and Other Research Chairs
Genesis Centre: New Start-ups

Start-ups: from average of 3.3 to 4.3 per year post SRIP

Comparable Data Range Begins

SRIP Baseline

MUN Startups (IP)
MUN Startups (No IP)
Other Startups

Celcius Game Studio
Unified Softworx
SubC Control
(Via Link)

Solace Power
Grey Island Energy

Whitecap Scientific
(Research Ave)

NOCLAND Bus
Vish Solutions
Seamatica

C-Blue
Agile Sensor Tech.
ARC Instruments

Hey Orca
Empowered Homes

Sequence Bio

Odd Couple

VMT
(Source Studio)

(AFININ)

(Extr Ocean)

Clear Risk


SRIP Baseline

SRIP Baseline