Funding the Next Generation of Scientists

Findings from two recent reports Presented by the CSMB

Canada’s Fundamental Science Review

- Found that Canada’s research competitiveness has eroded
- Found weak co-ordination within the research ecosystem

Tri-council federal funding (CIHR, NSERC, SSHRC) is held by:

6000 PhD Students

1400 Postdoctoral Fellows

Federal support has flatlined over the last ten years

... deeply affecting investigator-led research programs

Recommends a $485 M INVESTMENT

Over 4 years

To address current funding gaps

Including $140 M

To increase trainee numbers and boost diversity

“Moreover, those students will be much better prepared to write their own stories in a world full of the challenges left by our generation.”

Visit www.sciencereview.ca for more

Global Young Academy

The View from the Bench

- Reflects the perspectives of 1300 Canadian researchers
- Focused on the decline of fundamental research in Canada

Success Rates: from 2005 to 2015

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<th>CIHR</th>
<th>SSHRC</th>
<th>NSERC</th>
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<tbody>
<tr>
<td>2005</td>
<td>28%</td>
<td>40%</td>
<td>76%</td>
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<tr>
<td>2015</td>
<td>14%</td>
<td>23%</td>
<td>20%</td>
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20% No

76% Yes

6% believe that recent funding adjustments are sufficient to inspire considerably more young Canadians to choose a research career

60% believe it will result in fewer (35% considerably)

Has the current CIHR environment had a negative impact on your ability to recruit graduate students?

“I have lost promising graduate students in the past five years who informed me that the primary reason for leaving an academic career path was because of trends in funding. Essentially, we are losing the top scientists of the next generation.”

– Senior academic, natural sciences

“Whether or not the next generation pursues careers in research in my country will likely depend on the restoration of direct scholarship funding. Without it, there is no compelling reason for top students to stay here.”

– Senior academic, engineering

Recommends closing the funding gap of $459 M (restoring the research ecosystem to 2005 levels)

as a “sensible starting point”

1.6% GDP to 4% GDP Leaders

Visit globalyoungacademy.net for more