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The University of Guelph offers our research partners and stakeholders an unparalleled return on research investment. That return is the foundation for this report, the first of what will become an annual publication.

Our research revenue jumped to more than $157 million in 2011-2012, thanks mainly to increased federal, provincial and industry funding, and to the dedication and skills of our research community.

Our researchers’ commitment, leadership and expertise have been recognized across Canada and around the world. In fact, their work has made Guelph Canada’s most inventive and efficient research university. The University has three times more invention disclosures per faculty member than the national average, while spending one-quarter as much on each disclosure. That’s a great return on investment.

As a comprehensive university, Guelph promotes individual and collaborative research, endeavouring to engage with a wide range of communities. The investment in research from all sources enhances student teaching and discovery by involving students in research design and execution, and through knowledge mobilization, transfer and training.

Creativity in discovery generates innovations that benefit society and the economy. Through fundamental and applied research, we are addressing challenges, seizing opportunities, changing lives and improving life.

I’ve seen first-hand evidence that Guelph researchers are dedicated to cultivating the essentials for quality of life through basic and applied research. Our goal is to use knowledge and research to help people, here and around the world.

I hope you enjoy reading this first report on research, and I welcome your comments.

Kevin Hall, Vice-President (Research)
The University’s Strategic Research Plan helps promote, encourage and advance research strengths in these areas in which the University has built its reputation for quality and innovation.

The plan reflects the University’s mission and its objectives, such as research intensity, internationalism and collaboration.

The University is proud of its heritage in agriculture and veterinary medicine, and of its accomplishments and programs in science and engineering, social and applied human sciences, liberal arts, humanities, fine and performing arts, and economics and business.

Investment in research enhances student teaching and learning through incorporating research techniques and discovery into the curriculum, through involving students in research design and execution, and through knowledge mobilization and transfer.

- Agriculture, food and the bioeconomy
- Health and well-being in humans and animals
- Economic management, governance and public policy
- Biodiversity, environment and ecology
- Human behaviour, cultural evolution, creative communities
- Technology and applied sciences
- Foundations of science

For more on Guelph’s Strategic Research Plan, visit www.uoguelph.ca/research/strategic-plan
SUCCESS
Research revenue shows significant gains and record highs

$157.5 MILLION

<table>
<thead>
<tr>
<th>Year</th>
<th>Revenue</th>
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<tbody>
<tr>
<td>2011-12</td>
<td>$157.5 MILLION</td>
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<tr>
<td>2010-11</td>
<td>$153.0 MILLION</td>
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<tr>
<td>2009-10</td>
<td>$145.3 MILLION</td>
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Leveraged government programs helped lead to more business and industry support for Guelph research.

Guelph continues to garner federal funding support from sources such as Canada Research Chairs and Canada Foundation for Innovation.

The research agreement with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs provides a vital base.
COMMITMENT

Guelph dedicates more space to research than any other Ontario university.

25%

Since 2001, the space dedicated to research has jumped from 45,000 square metres to 58,600 square metres. This represents 25% of the space on campus, compared to the Ontario average of 15%.

Source: Council of Ontario Universities
Source: Council of Ontario Universities

- 2001-02: 45,000 SQ.METRES
- 2004-05: 47,100 SQ.METRES
- 2007-08: 52,300 SQ.METRES
- 2010-11: 55,100 SQ.METRES
- 2011-12: 58,600 SQ.METRES

Source: Council of Ontario Universities
SERVING STAKEHOLDERS

Guelph research discoveries move out of the lab and into business, industry and society

- More than $2 million generated in licence revenue
- 130 technology disclosures
- 40 licence agreements with industry
- 33 patents filed
- 40 technology disclosures
Through the partnership with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs:

- More than $850,000 commercial revenue reinvested in research
- Royalty revenue generated since 1971 from plant variety development reached $10 million

Source: Catalyst Centre, University of Guelph
Guelph is the most efficient and inventive research university in Canada

Guelph is Canada’s most efficient university for disclosure costs, spending about one-quarter as much as the national average.

Source: Catalyst Centre/the Impact Group, ‘IT ISN’T ME!’ Image credit: Jaideep Malik/University of Guelph Cellscapes
The University of Guelph leads the country by far in invention disclosures per faculty member, recording three times as many as the national average.

Source: Council of Ontario Universities
HEAD OF THE CLASS

Guelph researchers earn top marks, changing lives and improving life for people at home and abroad

One of the world’s top 300 universities

Canada’s top university for agricultural and veterinary science publications

More publications in biochemistry and molecular biology than any other Canadian university without a medical school
More than $3 million invested in nearly 70 knowledge translation and transfer research projects, through our partnership with the Ontario Ministry of Agriculture and Food and the Ministry of Rural Affairs.

University of Guelph research revenues have consistently outperformed domestic spending on research and development.

First in research opportunities at medium-size Canadian universities.

LEADERSHIP
University of Guelph researchers are recognized nationally and globally for their expertise and leadership

Canada Research Chairs
Aaron Berg  
Dorothee Bienzle  
Milena Corredig  
Myrna Dawson  
Monique Deveaux  
Kari Dunfield  
John Dutcher  
Hermann Eberl  
James France  
Evan Fraser  
Chris Hall  
George Harauz  
Paul Hebert  
Nina Jones  
Smaro Kamboureli  
Allan King  
René Kirkegaard  
Vladimir Ladizhansky

Joseph Lam  
Jacek Lipkowski  
Alejandro Marangoni  
Georgia Mason  
Ed McBean  
Kevin McCann  
Barbara Morrongiello  
Linda Parker  
Kathryn Preuss  
Carla Rice  
Frances Sharom  
Barry Smit  
Carl Svensson  
Merritt Turetsky  
Scott Weese  
Chris Whitfield  
David Wright  
Rickey Yada

University Research Chairs
Madhur Anand  
Dionne Brand  
Robert Enright  
Elizabeth Ewan  
Daniel Fischlin  
Sky Gilbert  
Marion Joppe  
Paul McNicholas  
Robert Mullen  
Ryan Norris  
Steven Rothstein

NSERC Industrial Research Chairs
Milena Corredig, Dairy Technology  
Ontario Dairy Council
Mansel Griffiths, Dairy Science Microbiology  
Dairy Farmers of Ontario
Beth Parker, Groundwater Contamination in Fractured Media  
Boeing, Syngenta
Hongde Zhou, Advanced Wastewater Technologies  
Zenon Environmental Inc.
Industry-sponsored research positions

Valerie Davidson, NSERC Chair for Women in Science and Engineering
Hewlett-Packard (Canada) Ltd., BlackBerry

Warren Stiver, NSERC Chair in Environmental Design Engineering

Koushik Seetharaman, Research and Development in Cereal Science and Technology Chair
Ontario Cereal Industry Research Council

John Srbely, Canadian Chiropractic Research Foundation Professorship in Neurophysiology and Spine Mechanics

Yoshinori Mine, Ontario Egg Marketing Board Industrial Research Chair in Egg Material Science

Premier’s Research Chairs

Amar Mohanty, Biomaterials and Transportation
Ontario Ministry of Agriculture and Food and Ministry of Rural Affairs

Endowed research chairs

Jason Coe, Nestlé Purina PetCare Canada Chair in Communications

Ian Duncan, Emeritus Chair of Animal Welfare

George Greene, Chair in Environmental Governance
Kinross Gold Corp.

Chris Hall, Surgeon Chair in Life Sciences

Donna Lero, Jarislowsky Chair in Families and Work

Ralph Martin, Loblaw Chair in Sustainable Food Production

Graeme Morton, Scottish Studies Chair

Lee Niel, Col. K. L. Campbell Chair in Companion Animal Welfare

Adronie Verbrugghe, Royal Canin Veterinary Diet Endowed Chair in Canine and Feline Clinical Nutrition

Tina Widowski, Col. K. L. Campbell University Chair in Animal Welfare; Egg Farmers of Canada Chair in Poultry Welfare

Rebanks Family Chair in Pollinator Conservation
W. Garfield Weston Foundation