In this talk, you will learn about:

- How NSERC is involved in the wood pellet sector
- How NSERC initiatives can help your business grow
- How other companies achieved success
- How you can get started
Priorities

People
Attract and retain the best students and researchers in Canada by supporting more than 30,000 students and postdoctoral fellows.

Discovery
Enable Canadian scientists and engineers to become global leaders in their fields by funding more than 11,000 professors for their research programs.

Innovation
Increase Canada’s prosperity by building connections and supporting the application of research by funding research projects with over 2,600 Canadian companies.

Total Budget 2013-14
$1.07 billion

NSERC AT A GLANCE

CONNECT. COLLABORATE. PROSPER.
CONNEXION. COLLABORATION. PROSPÉRITÉ.
NSERC INVESTMENTS

- NSERC’s total investment in Forestry and Wood Products Research and in Natural Resources and Energy was $26.8M and $158.9M, respectively (2013-14).
- Several large-scale ongoing NSERC-funded initiatives:
  - NSERC Bioconversion Network (2008-2015)
  - NSERC Biomaterials and Chemicals Network (2013-2016)
  - NSERC Green Fibre Network (2010-2015)
NSERC AND WOOD PELLETS

NSERC Funding by Year to Innovation [2006-2012]
NSERC CAN HELP YOU...

Achieve a competitive advantage and grow your business

Leverage your R&D investments

Discover solutions to your technical problems

Access state-of-the-art facilities and equipment

Find future employees
HOW DO COMPANIES AND ACADEMICS WORK TOGETHER?

- Company + Academic
  - Proposal to NSERC
  - NSERC and Company Support Costs
NSERC’S PARTNERSHIP OPTIONS

• NSERC has a suite of partnership and funding opportunities.

• Three will be discussed:
  ✓ Engage Grant
  ✓ Applied Research and Development Grant (Level 1)
  ✓ Collaborative Research and Development Grant
Engage Grant (University)

- New partnership
- Company driven problem
- 6 month project
- Up to $25K from NSERC
- No company cash
- Company owns the IP
- No application deadline
- 4-6 week turnaround

Applied Research & Development Grant (College)

A GOOD FIRST STEP…
• 2,776 companies
  – 72% new to NSERC
• 2,256 professors
  – 53% new to NSERC-supported industry collaboration
## WHAT ARE COMPANIES SAYING?

<table>
<thead>
<tr>
<th>Statement</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Project was a success</td>
<td>94%</td>
</tr>
<tr>
<td>Problem was partially or completely solved</td>
<td>86%</td>
</tr>
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<td>Intend to apply the results</td>
<td>76%</td>
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<tr>
<td>New technology or knowledge gained</td>
<td>95%</td>
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<tr>
<td>Enhanced skill and knowledge base</td>
<td>84%</td>
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Dr. Kendal Bushe
UBC Mechanical Engineering
Industrial Equipment Manufacturing Inc.

“Performance prediction of a biomass direct-firing gas turbine”
Collaborative R&D Project

- Focused R&D projects at any point in the spectrum
- 1-5 years in duration
- Costs are shared between NSERC and partner(s)
- NSERC awards up to twice the company’s cash contribution
- Flexible IP
- No application deadline
- 3 to 5 month turnaround
<table>
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<tr>
<th>Statement</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Project was a worthwhile investment</td>
<td>93%</td>
</tr>
<tr>
<td>Enabled development of new products/services</td>
<td>80%</td>
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<td>and increased competitiveness</td>
<td></td>
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<tr>
<td>Ongoing collaborations with researchers</td>
<td>75%</td>
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<tr>
<td>Transferred knowledge gained into business</td>
<td>98%</td>
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Dr. Jim Lim, Dept. Chem. & Biol. Eng., UBC

Company Partners ($250,000 cash + $315,000 in-kind over 5 years)

- WPAC
- Delta Research Corporation

NSERC Award: $499,500 over 5 years (2007-2012)

Project: “Modeling of off-gassing for wood pellets.”
**Validation**: rigorous expert review ensures projects are a good business investment.

**An active partner**: On-going projects are monitored to ensure results.

“*The review process that NSERC conducts, utilizing international and Canadian experts, has provided invaluable feedback that we use to enhance our collaborative research projects.*

*Once a review is successful and complete, we move forward with increased confidence that our project goals will be met.*”

Justin Gammage,
Chief Scientist, GM Canada
WANT TO LEARN MORE?

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CONNECT. COLLABORATE. PROSPER.