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|--|-------------|--|---|--|--|
| Institutional Identifier   |             | <b>FORM 101</b><br><b>Application for a Grant</b><br><b>PART I</b> |   | Date<br>2016/01/01                                       |  |
| System-ID (for NSERC use only)<br>123456789  |             |  |   |  |  |
| Family name of applicant<br>Last_Name  |             | Given name<br>First_Name   | Initial(s) of all given names<br>I.N.   | Personal identification no. (PIN)<br><b>Valid</b> 112358 |  |
| Department   |             |  | Institution that will administer the grant  |  |  |
| Language of application <input checked="" type="checkbox"/> English <input type="checkbox"/> French  |             |  | Time (in hours per month) to be devoted to the proposed research / activity 20  |  |  |
| Type of grant applied for<br>Engage Grants for universities  |             |  | For Strategic Projects, indicate the Target Area and the Research Topic; for Strategic Networks indicate the Target Area. |  |  |
| Title of proposal<br>Catching Road Runners with Advanced Data Analysis   |             |  |   |  |  |
| Provide a maximum of 10 key words that describe this proposal. Use commas to separate them.<br>Road Runners, Data Analysis, Mathematical Analysis  |             |  |   |  |  |
| Research subject code(s)<br>Primary 2960 Secondary 2955  |             | Area of application code(s)<br>Primary 408 Secondary 102           |   |  |  |
| <b>CERTIFICATION/REQUIREMENTS</b>  |             |  |   |  |  |
| If this proposal involves any of the following, check the box(es) and submit the protocol to the university or college's certification committee.<br>Research involving : Humans <input type="checkbox"/> Human pluripotent stem cells <input type="checkbox"/> Animals <input type="checkbox"/> Biohazards <input type="checkbox"/> |             |  |   |  |  |
| Indicate if the proposed research takes place outdoors and if you answered YES to a), b) or c) – Appendix A (Form 101) must be completed<br><input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  |             |  |   |  |  |
| <b>TOTAL AMOUNT REQUESTED FROM NSERC</b>   |             |  |   |  |  |
| Year 1<br>25,000   | Year 2<br>0 | Year 3<br>0  | Year 4<br>0   | Year 5<br>0  |  |
| I certify that this project will involve only industry partners with whom no prior research partnership has taken place: Yes   |             |  |   |  |  |
| <b>SIGNATURES (Refer to instructions "What do signatures mean?")</b>   |             |  |   |  |  |
| It is agreed that the general conditions governing grants as outlined in the NSERC <i>Program Guide for Professors</i> apply to any grant made pursuant to this application and are hereby accepted by the applicant and the applicant's employing institution.  |             |  |   |  |  |
| Applicant<br>Applicant's department, institution, tel. and fax nos., and e-mail<br>Mathematics and Statistics<br>Calgary<br>Tel.: (403) 2208214<br>FAX: (403) 2825150<br>mikel@ucalgary.ca   |             |  | Head of department<br><br>Dean of faculty<br><br>President of institution<br>(or representative)                          |  |  |

Personal identification no. (PIN)

**Valid** 112358

Family name of applicant

Last\_Name

**SUMMARY OF PROPOSAL FOR PUBLIC RELEASE (Use plain language.)**

This plain language summary will be available to the public if your proposal is funded. Although it is not mandatory, you may choose to include your business telephone number and/or your e-mail address to facilitate contact with the public and the media about your research.

Business telephone no. (optional): 1 (111) 1111111

E-mail address (optional): Last\_Name@University.ca

(Here you place a summary of the research. It would be useful to mention the research and methods being applied, the industry you are involved with, and the expected economic benefits. This summary is meant for a general audience, so don't get too technical here.)

**Other Language Version of Summary (optional).**

(Get a good translation in the second official language of Canada, if you can.)

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Last\_Name

See instructions for further details.

**PROPOSED EXPENDITURES**

|   | Cash   | In-kind |
|---|--------|---------|
| 1) Salaries and benefits                |        |         |
| a) Students                             | 32,000 |         |
| b) Postdoctoral fellows                 | 0      |         |
| c) Technical/professional assistants    | 0      | 15,000  |
| d)                                      | 0      |         |
| 2) Equipment or facility                |        |         |
| a) Purchase or rental                   | 2,000  | 0       |
| b) Operation and maintenance costs      | 0      |         |
| c) User fees                            | 0      | 0       |
| d)                                      | 0      |         |
| 3) Materials and supplies               |        |         |
| a) Data access and recording            | 1,000  | 0       |
| b)                                      | 0      |         |
| c)                                      | 0      | 0       |
| 4) Travel                               |        |         |
| a) Conferences                          | 2,000  |         |
| b) Field work                           | 0      | 0       |
| c) Project-related travel               | 0      |         |
| d)                                      | 0      |         |
| 5) Dissemination                        |        |         |
| a) Publication costs                    | 0      |         |
| b)                                      | 0      |         |
| 6) Technology transfer activities       |        |         |
| a) Field trials                         | 0      |         |
| b) Prototypes                           | 0      |         |
| c)                                      | 0      |         |
| <b>TOTAL PROPOSED EXPENDITURES</b>      | 37,000 |         |
| <b>Total support from industry</b>      | 12,000 |         |
| <b>Total support from university</b>    |        |         |
| <b>Total support from other sources</b> |        |         |
| <b>AMOUNT REQUESTED FROM NSERC</b>      | 25,000 |         |

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**Valid** 112358

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Last\_Name

Supporting organizations are not required to make cash or in-kind contributions for this grant. However, if there are any contributions, please report them in the following table, and describe any in-kind contributions provided in the budget justification.

Name of supporting organization

**CONTRIBUTIONS FROM SUPPORTING ORGANIZATIONS**

**Cash contributions to direct costs of research (Transfer amounts to page three (3); except those for the Ship Time program.)**

12,000

**In-kind contributions to direct costs of research**

1) Salaries for scientific and technical staff

15,000

2) Donation of equipment, software

0

3) Donation of material

0

4) Field work logistics

0

5) Provision of services

0

6)

0

**Total of in-kind contributions to direct costs of research**

15,000

**In-kind contributions to indirect costs of research (not leveraged)**

1) Use of organization's facilities

2,000

2) Salaries of managerial and administrative staff

0

3)

0

**Total of all in-kind contributions**

17,000

**Contribution to postsecondary institution overhead**

0

## Contributions from Industrial Partner

In this one page, indicate both the cash and in-kind support that the company is providing for the internship. Explain the need for the contribution. Note that the partner company needs to provide a letter of support acknowledging their commitment to supply these contributions, so be sure to discuss it with the company before putting the information into the grant application.

A sample itemization might look like this:

Partner company's contributions (cash and in-kind) are as follows:

- Salary top-up for intern (cash): \$10,000 .
- Purchase of equipment. \$2,000.
- Research supervisor at Company: 10 hours/week for 20 weeks, at \$50/hr is \$10,000.
- Technical staff. 5 hours/week for 20 weeks at \$50/hr is \$5,000.
- Office space for 20 weeks. \$2,000.

Total: \$12,000 in cash contribution, \$17,000 in-kind contribution.

## Budget Justification

This section gives a written description of what is needed in the budget. There is another section on the NSERC form where you put in a list of items for salary, equipment, travel, publication costs, and anything else that is relevant. With a total listed.

So on this page, explain in sentences how the numbers in your budget translates to what you are doing. For instance, you could say you will spend \$30,000 for salary of the intern, who is a PhD candidate, being paid at a rate of \$30/hour. This could include \$10,000 cash contribution from the company, and \$20,000 from the grant. (But note that the company is not required to make a cash contribution.) Benefits are calculated in addition to this (give the percentage rate for benefits at your university). If you need specialized equipment or access to data sources that charge a user fee, indicate it here and explain why you need it. Similarly for all other expense,

Indicate the total cost. Note that NSERC provides up to \$25,000 for one internship. Total costs can be higher, if the industrial partner is adding funds to the project. Indicate that all here.

You have one page for the budget justification.

## Relationship to other Research Support

On this one page, indicate any other research support you have (from NSERC and other sources) and explain their connection to this project. There may indeed be no connection at all, but you should give the title of the other grant(s), funding source(s), term of the grant(s), and describe what the other support is for. Then explain how it is or is not connected to this project. Something like a paragraph for each grant is appropriate.

## Title of the Project Goes Here

Two pages only for this. Note that NSERC expects five specific subsections to appear. Each one is listed below. You should insert the appropriate text.

**Overview of the company-specific problem:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. In tempor dolor ac ex pharetra, quis consectetur odio eleifend. Proin at tortor sollicitudin, facilisis risus at, ultricies urna. Donec vestibulum viverra ante vitae hendrerit. Vestibulum tristique pretium velit. Pellentesque condimentum arcu diam, vitae fermentum mauris iaculis vitae. Suspendisse sagittis varius bibendum. Aenean tincidunt justo et metus suscipit, in laoreet est lobortis. Maecenas consectetur magna quis nulla tempus elementum. Sed at nunc vehicula, placerat sem quis, rutrum justo. Fusce ac orci in felis cursus iaculis a et purus.

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**Research project:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. In tempor dolor ac ex pharetra, quis consectetur odio eleifend. Proin at tortor sollicitudin, facilisis risus at, ultricies urna. Donec vestibulum viverra ante vitae hendrerit. Vestibulum tristique pretium velit. Pellentesque condimentum arcu diam, vitae fermentum mauris iaculis vitae. Suspendisse sagittis varius bibendum. Aenean tincidunt justo et metus suscipit, in laoreet est lobortis. Maecenas consectetur magna quis nulla tempus elementum. Sed at nunc vehicula, placerat sem quis, rutrum justo. Fusce ac orci in felis cursus iaculis a et purus.

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One page only for this. You can break it up into sections as appropriate, if you like.

### **Technology Patents**

1. John Doe, Jane Doe, Apple Bee, 2001, Method for doing cool stuff that's never been done before, United States Patent No. 12345678. Assignee: The Fonz.
2. John Doe, Jane Doe, Apple Bee, 2001, Method for doing more cool stuff that's never been done before, United States Patent No. 12345679. Assignee: The Fonz.

### **Recent journal publications**

1. John Doe, Jane Doe, Apple Bee, 2001, Doing Cool Stuff, Proceedings of the Cool Convention, Freedom Station, Antartica.
2. John Doe, Jane Doe, Apple Bee, 2001, Documenting Cool Stuff, Journal of All Things Cool, vol. 1, Iss. 1, Publishing Corporation of Antartica.

### **Foundational references**

1. Jack Frost, 2001, The Art of Cool, Antartica University Press.
2. Jacob Faithful, 1835, Shiver Me Timbers, Pirate University Press.

In this section, you must detail any direct environment impact that the project will have. NSERC has specific rules on funding for project that could hurt the environment, so read the rules and report as appropriate.

For a math or stat project that involves working at a desk and accessing data, there are typically no environmental concerns to report. However, if the project involves going out into the field to collect data, then likely there is an environmental aspect to consider and report.

In this section, put some information about the company. A good source would be an annual report from the company, sales literature, or even their web page. Indicate when the company was established, what is the product(s) that they produce, what is their research and development that is relevant to this project. It would be a good idea to mention their Canadian connection and potential impact on the Canadian economy.

## Company History

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## Company Products and Markets

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## Other useful information you would like to include

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## Contact information

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<http://www.acmecorporation.com>