

2019 Terry Fox New Frontiers Program Project Grant (PPG) Full Application Guide

Timeline

1	Submission of a Letter of Intent	July 13, 2018
2	Invitation to Submit a Full Application	September 7, 2018
3	Submission of Full Application	November 16, 2018 (5:00 pm PST)
4	Site Visits Held	March-April 2019
5	Notice of Decision / Awards	May 31, 2019
6	Funding Starts	July 1, 2019

Competition Website

Applicants will find competition details and document templates at
<http://tfri.ca/en/research/program-project-grants/program-project-grants-2019.aspx>

Submission Format and Naming of Electronic Files

Applicants must submit the completed Full Application electronically before the deadline dates (date stamped before 5:00pm Pacific Standard Time on the deadline date) to the email address ppg@tfri.ca. Applicants are requested to submit the full application attached to the email(s) as separate attachments with suggested file names as follows:

<i>Attachments Descriptions</i>	<i>File Names</i>
Full Application Overview with CVs	TFRI 2019 PPG FULL APPLICATION – Overview -PROJECTLEADERNAME
Individual Project 1	TFRI 2019 PPG FULL APPLICATION - Project 1 – PI NAME
Individual Project 2	TFRI 2019 PPG FULL APPLICATION - Project 2 – PI NAME
Individual Project 3	TFRI 2019 PPG FULL APPLICATION - Project 3 – PI NAME
Individual Core 1	TFRI 2019 PPG FULL APPLICATION - Core 1 – PI NAME
Full Application Budget Worksheet	TFRI PPG 2019 FULL APPLICATION – Budget – PROJECTLEADERNAME
Full Application Budget Justification	TFRI PPG 2019 FULL APPLICATION - Budget Justification - PROJECTLEADERNAME

The electronic document(s) attached to the email(s) must be a PDF formatted file (or an Excel file in the case of the Budget Worksheet). Our email system will only accept documents of up to 25MB in size. If larger, please separate the application file into smaller files and send in sequence. Applicants are asked to replace 'PROJECTLEADERNAME' or 'PI NAME' in the file name with his / her last name followed by first name, i.e., 'TFRI 2019 PPG FULL APPLICATION – Overview - Smith-John.pdf'

Acknowledgement of the Full Application

TFRI will acknowledge by email receipt of Full Applications before Monday November 19, 2018.

Format of the Full Application Documents

The Microsoft Word Template documents have been formatted in the desired format for clarity and ease for the reviewer to read. It is recommended that this formatting is retained.

Page Margins: Top, Bottom, Sides all 1 inch

Font: Calibri 11 pt (acceptable replacements Times Roman or Arial at 11 pt)

Line Spacing: 1.5

Paragraph Spacing: 6 pt between paragraphs

Material in square brackets is designed to be replaced by the Applicant's text in black. Maximum page limits provided in the document templates must be observed. TFRI reserves the right to remove pages and material in excess of the limits.

The budget template is provided as a Microsoft Excel workbook. Only two of tabs (the **Budget**, and **Overall Core** tabs) are unlocked and available for addition of budget data (yellow cells). It is intended that individual budget components be listed at a high level (i.e., all salaries for a project combined as a single line item) and then explained in more detail in the budget justification document.

COMPLETING THE FULL APPLICATION

The Full Application comprises five parts: an overview section, individual sections for each of the independent projects and core technology platforms, a detailed budget worksheet, and the budget justifications. A checklist file is provided on the TFRI web site so that you may ensure that you have completed all of the required components.

PART 1: Program Overview

1. Cover and Summary Pages

a) *Full Name of Project Leader*

One of the senior investigators on the New Frontiers Program Project Grant proposal is required by TFRI to assume the role of Project Leader. The Project Leader will be responsible for the scientific management of the overall PPG, ensuring that progress and financial reporting requirements are met and for submitting the PPG Full Application to TFRI. The Project Leader must also be a Principal Investigator leading an individual project (see also paragraph below).

b) *Program Title*

Provide a full title for the proposed program for which funding is being requested. Note that the funded program title will take the form “The Terry Fox New Frontiers Program Project Grant in [title of program]”.

c) *Lead Research Institute*

One institution must be selected as the Lead Research Institute. Normally it will be the home institution of the Project Leader.

d) *Other Research Institute(s)*

Individual rows of the table can be expanded as required. For each of the institutions that will receive and administer the funded PPG, provide the full name of the institution and obtain signatures of Principal Investigator, Head of Department, Dean/Director and Vice President of the Institute as appropriate. The funds awarded will be made available to each of the Principal or Co-Investigators at his/her respective institution.

Through the signatures of the authorized officials delegated to sign on its behalf, the institution affirms it has the capacity in law to be responsible for the research and associated activities as detailed in the proposal. The institution will provide the Applicant(s) with the time, space and designated support to complete the research as described. Applicants may need to itemize the budget for their respective institutions, however TFRI does not require this to be submitted with the application.

It is not necessary to send original signatures to TFRI. TFRI accepts copied signatures: defined as a hand written signature which has been copied regardless of the medium used (e.g., faxed, photocopied, scanned .pdf, .tif or stamped) and electronically inserted, in the case of scanned signatures. In submitting a copied signature, the individual so

identified is authorized to, and has indeed agreed that the Institution supports the proposal as presented.

e) *List of Projects and Core(s)*

The table can be expanded or rows deleted as required. For each proposed research project and core technology platform provide a single phrase comprising the short title of the respective project or core, and the Principal Investigator (PI) who will be responsible for that component. Do not include here the names of co-investigators and collaborators. They should be included in the individual project proposals or individual core technology platform proposals. To be eligible for consideration, each PPG must comprise of a minimum of three PIs and their respective research project proposals. The application may also support funding of core technology platform(s), which are to be used by each of the independent research projects. Each core must be led by a PI, who can also be a Project PI.

f) *List of the Investigators*

The table can be expanded or rows deleted as required. Provide the full name of the investigator (Last_Name, First_Name Initials), define that investigator's role in the PPG, and his/her institutional affiliation.

Please note that TFRI uses the following definitions for investigators:

Project Leader will be responsible for the scientific management of the overall PPG, ensuring that progress and financial reporting requirements are met and for submitting the PPG Full Application to TFRI. The PPG may nominate a Principal Investigator as a Co-Project Leader to be responsible with the Project Leader for scientific management of the PPG. Salary requests are not eligible for Project Leader(s).

Principal Investigators are those individuals who will be scientifically responsible for each of the components in the list of projects and cores above. Salary requests are not allowed for Principal Investigators.

Co-Investigators are investigators who may be responsible for a sub-component of a project or core. They will not be paid a salary from the application, nor will they hold a trainee position.

Collaborators are investigators who provide expertise, resources or services to a project or core. They do not receive funds from the project. The collaborator must provide a letter to be submitted with the Full Application which describes the specifics of the collaboration.

g) Lay Summary

Provide up to a one page lay summary of the Program Project Grant Application. Be sure to indicate how your proposed research can improve personal health, the health of populations and/or the health delivery system. This information is used by TFRI to inform the public about the valuable research supported through public and donated funds.

h) Keywords

Provide up to ten keywords that describe the research proposal as a whole.

2. Table of Contents

The Table of Contents is intended to aid the reviewers navigate your proposal. It should be edited to reflect the headings you have used in your proposal. The headings should follow the items in the RFA for which information is required. The Roman numeral page numbers must be replaced by actual page numbers as they appear in your final application.

3. Scientific Abstract of the Program (max 1 page)

Briefly outline the background to the proposed program, overall goal of the application and the components to be mobilized to reach the stated goal. The abstract should include a description of the expected outcomes and impact of the research.

4. Overall Description of the Program (max 10 pages)

This section must be prepared and submitted by the Project Leader. Within the limit of ten pages, provide an overview of the program. Note that the next section – Progress Report – allows for a detailed description of the group’s recent scientific advances. State concisely question(s) this program project application is designed to address and why this is important. Provide a background of current knowledge relative to the proposed research, with reference to relevant publications. Summarize specific objectives of the proposal, and state why they are important and are novel. Describe the established and planned collaborations, and provide a rationale why this application is considered a program project. Explain how interrelated and synergistic the projects are in their work towards a common goal. Demonstrate how the overall program will be able to achieve much more than the simple sum of its component projects; how would the removal of any project affect the other projects and the program as a whole. Describe how the program will provide a value-added research training environment for students and fellows.

Describe commitments made by the Institution that will be essential for the successful performance of this program, including the role of other partners or funders. Disclose relevant commitments made by and to those partners, for example, to give the partner

preferred access to use a resource. State whether these commitments are secured, requested but not yet secured, or are planned but not yet requested. Finally, describe the specifics of how the proposal adds to, and integrates and synergizes with a larger program or activity at the sponsoring institution. Provide a summary of the larger program's goals and participants.

Applicants are advised to refer to the criteria the reviewers use to evaluate your proposal, which is available on the competition website, in writing this section.

5. A Progress Report (max 5 pages)

Within the limit of five pages, describe the results of previous research on this *or any other closely related program* by the investigators, with reference to relevant publications.

6. Report on Terry Fox Funding Results (renewal applications only)

Concisely itemize the results of your previous Terry Fox-funded Program Project Grant in terms of publications, patents, or any other substantial development which was supported by these funds. For publications, please use a tabular format and include a reference and a 1-2 sentence description of the results. List only publications which explicitly acknowledge the Terry Fox funding contribution.

7. List of References

Provide a complete list of relevant references for the preceding sections. Those references directly funded by Terry Fox support should be highlighted. The reference must include the full title of the paper. For this section alone, the applicants should present the list with single line spacing, and not 1.5 line spacing required elsewhere in the Full Application. There is no page limit for the list of references.

8. Tables & Figures (max 5 pages)

Provide a maximum of up to five pages of Tables and Figures related to the preceding sections. Applicants must submit tables and figures that can be read and interpreted without magnification.

9. Research Environment (max 1 page)

The description must include details of resources and research infrastructure on which the application will depend. If a piece of infrastructure is absent, the applicants must provide a plan of how that research infrastructure will be obtained.

10. Appendices - Curriculum Vitae

All program applicants (Project Leader, Principal Investigators, Co-Investigators) with the exception of collaborators, are required to submit a TFRI CV. All CVs must be included with the Program Overview section of the application. It is recommended that all TFRI CVs are updated with any new information since the LOI submission.

PLEASE NOTE that the CV format is slightly different from that required for LOI submission.

We now require all applications in section B to provide a full list of authors for publications, and to embolden names of co-authors who are co-applicants in this proposal, as well as to mark with an asterisk any publications that resulted directly from the previous period of Terry Fox funding (renewals only). In section D, TFRI requires you to specify the role the applicant has for each existing and submitted research grants, and to specify the relationship or overlap that application or grant has with this application. If there is no relationship or overlap, please state no relationship or 0% overlap. In section E, list any new publications since the submission of the Letter of Intent for this project.

In addition you are required to list any currently funded TFRI grants on which you are a co-investigator or a collaborator, but from which you receive no direct funding. In these cases explain any relationship, difference and overlap in scope between this application and those grants. If applicable, explain any duplication or efficiency in research effort, and how this application complements the research funded by those grants.

11. Appendices - Institutional Letters of Commitment

Include any Institutional Letters of Commitment regarding this proposal.

In the table for the appendices, include a list of all attachments to the full application, including Letters of Commitment.

PART 2: Individual Project Proposal (minimum of three required)

1. Cover and Summary Pages

a) *Full Name of Principal Investigator*

Provide the full name of the Principal Investigator who will be scientifically responsible for the individual project.

b) *Program Title*

Provide the full title for the proposed program for which funding is being requested. Note that the funded program title will take the form “The Terry Fox New Frontiers Program Project Grant in [title of program]”.

c) *Project title*

Provide a full title for the proposed individual project for which funding is being requested.

d) *List of the Investigators Included in this Individual Project Application*

The table can be expanded or rows deleted as required. Provide the full name of the investigator (Last_Name, First_Name Initials), define that participant’s role in the PPG, and his/her institutional affiliation. A signature by that person on the proposal signifies that they agree to diligently carry out the responsibilities of the role assigned to them as described in the PPG proposal.

Principal Investigators are those who will be scientifically responsible for the project.

Co-Investigators are investigators who may be responsible for a sub-component of the project. Principal Investigators and Co-Investigators will not be paid a salary from the application, nor will they hold a trainee position.

Collaborators are investigators who provide expertise, resources or services to a project or core. They do not receive funds from the project. The collaborator must provide a letter to be submitted with the Full Application which describes the specifics of the collaboration.

e) *Keywords*

Provide up to ten keywords that describe this individual project, the techniques and the methodologies it will employ and the areas of interest.

2. Table of Contents

The Table of Contents is intended to aid the reviewers navigate your proposal. It should be edited to reflect the headings you have used in your proposal. The headings should follow the items in the RFA for which information is required. The Roman numeral page numbers must be replaced by actual page numbers as they appear in your final application.

3. Scientific Abstract (max 1 page)

Briefly outline the background to the proposed individual project, its objectives, and provide a summary of the research plan. The PI must also describe the anticipated results and outcomes.

4. Research Proposal (max 20 pages)

Within the limit of twenty pages, provide a detailed research proposal of the individual project. Provide a background of current knowledge, with reference to relevant publications. State concisely the question(s) this project is designed to address, and why this is important. Summarize the preliminary data and a logical flow from preliminary results to the proposed research. Describe overall goals and objectives and specific aims of the research including hypotheses to be tested. Provide a clear and detailed description of the proposed experiments including technologies and methodologies employed. The proposal should also describe an estimate of the time required to complete the proposed aims. Lastly, provide specific synergies with the program and describe how interrelated the project is in the work towards a common goal (see synergy points on pages 5 and 6).

5. List of References

Provide a complete list of relevant references for the preceding sections. The reference must include the full title of the paper. For this section alone, the applicants should present the list with single line spacing, and not 1.5 line spacing required elsewhere in the Full Application. There is no page limit for the list of references.

6. Tables & Figures (max 10 pages)

Provide a maximum of up to ten pages of Tables and Figures related to the proposed research. Applicants must submit tables and figures that can be read and interpreted without magnification.

7. Appendices - Other Application Materials

If you have collaborators who will provide expertise, resources or services to the project, provide letters that describe the specifics of the collaborations. Provide a letter from the Institution describing the commitments made by the Institution that will be essential for the

successful performance of this project, including the role of other partners or funders. Note that the content of institutional letters provided to support the program as a whole do not need to be duplicated here. Disclose relevant commitments made by and to those partners, for example, to give the partner preferred access to use a resource. State whether these commitments are secured, requested but not yet secured, or are planned but not yet requested. Append confirming letters from those partners as applicable. If the commitment is for more than one project/core, append the letter in the Appendices section of the Overall Program application. Provide up to five key peer-reviewed publications and submitted manuscripts directly related to the application. Attach equipment quotations if applicable.

PART 3: Individual Core Technology Platform Proposal

1. Cover and Summary Pages

a) *Full Name of Principal Investigator*

Provide the full name of the Principal Investigator who will be scientifically responsible for the individual core technology platform (Core).

b) *Program Title*

Provide the full title for the proposed program for which funding is being requested. Note that the funded program title will take the form “The Terry Fox New Frontiers Program Project Grant in [title of program]”.

c) *Name of Core*

Provide a full name of the proposed Core for which funding is being requested.

d) *List of the Investigators Included in this Individual Core Application*

The table can be expanded or rows deleted as required. Provide the full name of the investigator (Last_Name, First_Name Initials), define that participant’s role in the PPG, and his/her institutional affiliation. A signature by that person on the proposal signifies that they agree to diligently carry out the responsibilities of the role assigned to them as described in the PPG proposal.

Principal Investigators are those who will be scientifically responsible for the Core.

Co-Investigators are investigators who may be responsible for a sub-component of the Core. Principal Investigators and Co-Investigators will not be paid a salary from the application, nor will they hold a trainee position.

Collaborators are investigators who provide expertise, resources or services to the Core. They do not receive funds from the project. The collaborator must provide a letter to be submitted with the Full Application which describes the specifics of the collaboration.

e) *Keywords*

Provide up to ten keywords that describe this Core, the techniques and the methodologies it will employ.

2. Table of Contents

The Table of Contents is intended to aid the reviewers navigate your proposal. It should be edited to reflect the headings you have used in your proposal. The headings should follow the items in the RFA for which information is required. The Roman numeral page numbers must be replaced by actual page numbers as they appear in your final application.

3. Scientific Abstract (max 1 page)

Briefly outline the background and the description of the platform/technology offered. Provide a summary of the work plan for projects.

4. Core Technology Platform Proposal (max 20 pages)

Within the limit of twenty pages, provide a detailed proposal of the Core that includes a description of how it is applicable to multiple individual projects within the program defended by a clear rationale. Provide a background and objectives of the Core. Describe the specific goals for each of the Projects that will use the Core. Provide a clear and detailed description of the technologies and methodologies currently employed and research and development plan for the Core.

If this is a pre-existing core, or is a core technology platform that is used by non-applicant investigators, provide details of the operational and business plans and the current status and productivity of the Core. Include details of the current fee for service structures for the Core and how these have been established. Describe how the core leverages new technologies and approaches, and how the Core integrates and adds value or plans to add value to the program and the anticipated results and outcomes.

5. List of References

Provide a complete list of relevant references for the preceding sections. The reference must include the full title of the paper. For this section alone, the applicants should present the list with single line spacing, and not 1.5 line spacing required elsewhere in the Full Application. There is no page limit for the list of references.

6. Tables & Figures (max 10 pages)

Provide a maximum of up to ten pages of Tables and Figures related to the Core proposal. Applicants must submit tables and figures that can be read and interpreted without magnification.

7. Appendices - Other Application Materials

If you have collaborators who will provide expertise, resources or services to the core, provide letters that describe the specifics of the collaborations. Provide a letter from the Institution describing the commitments made by the Institution that will be essential for the successful performance of the core, including the role of other partners or funders. Disclose relevant commitments made by and to those partners, for example, to give the partner preferred access to use a resource. State whether these commitments are secured, requested but not yet secured, or are planned but not yet requested. Append confirming letters from those partners as applicable. If the commitment is for more than one project/core, append the letter in the Appendices section of the Overall Program application. Provide up to five key peer-reviewed publications and submitted manuscripts directly related to the application.

PART 4: Application Budget (Excel Workbook)

New Applications may propose up to a four year budget of up to \$400,000 in the first year and up to \$600,000 per year in years two to four. Renewing Applications may propose up to a six year budget of up to \$1,000,000 per annum. Refer to the RFA for definitions of new and renewing applications. You must use the appropriate 4-year or 6-year Excel budget template for your application.

Provide an itemized program budget for each individual project and core platform in the Excel worksheet, and the relevant budget justification text on the Budget Justification Form. Complete the tables with a single dollar amount per year for each of the following categories: Research Staff, Research Trainees, Consumables, Services, Equipment, and Other items. Two lines each are provided for expendables and services in order to allow for further categorization.

Salaries, expendables, and purchased services and other Project or Core Costs are to be combined into single line items in the budget, and described in detail (types of personnel, FTEs, salary and benefits amounts etc.) in the Budget Justification document. The “Justification #” column in the budget should be used for the addition of line numbers which can be referenced in the Budget Justification document. Please include these for clarity.

You are advised to double-check that the totals in the Excel workbook all add up correctly before submitting the budget documents.

If the current format of the Excel budget sheet poses a significant problem for the clarity of your planned budget, please email Russell Watkins (rwatkins@tfri.ca) with the details of the issue(s). The worksheet currently has space for five projects and two cores. Any elements not needed can simply be left blank and then hidden prior to submission. If additional lines are required in order to increase the number of project or cores you may add them.

Funds should flow to **one institution per line item**. If more than one institution is receiving funds for a project/core, use as many lines as required to ensure that the actual flow of funds to individual institutions is shown.

1. Program Budget (“Budget” tab on Excel Worksheet)

i. Detailed Project Budgets

The following expenditures will be considered **eligible** for Project Budgets:

- Research operating costs for the proposed collaborative research projects, which must not overlap with those for which group members currently receive funding.
- Salaries of research assistants, technicians and other personnel who are required for the success of the project. Note: Program coordinator/manager should be included in the Program budget and *not* in the individual Project budget.
- Support for research trainees, at institution approved rates.
- Costs of data collection, database, maintenance of information holdings, and analysis directly related to the application.
- A portion of the cost of capital equipment to be spent in the *first year* of the award, and maintenance costs for common services and shared facilities essential for the PPG.
 - For single items of equipment or service contracts costing between \$10,000 and \$25,000, attach at least one cost quotation.
 - For single items costing more than \$25,000, attach at least two competitive quotes.

TFRI anticipates that the Applicants will seek other sources of funding to acquire the necessary capital equipment.

The following costs are **not eligible**:

- Remuneration for Project Leader, Principal Investigators, Co-Investigators, Collaborators
- Major equipment over \$10,000 not included in the approved budget.
- Academic fees for students
- Indirect costs such as overhead or infrastructure charges (e.g., institutional costs of research, building maintenance, rent, insurance, computer network charges, patenting costs).
- Laboratory and office furniture
- Membership fees
- Activities by researchers not part of the Application

ii. Detailed Core Budgets

Complete the table with a single dollar amount per year for each of the following categories: Research Staff, Research Trainees, Consumables, Services, Equipment, and Other items.

The following expenditures will be considered **eligible** for Core Budget:

- Core Technology Platform operating costs for the proposed collaborative research projects, which *must not overlap* with those for which group members currently receive funding
- Salaries of key technical staff in proportion to the work directly undertaken by the proposal
- Costs of data collection, database, maintenance of information holdings, and analysis directly related to the application
- A portion of the cost of capital equipment to be spent in the *first year* of the award, and maintenance costs for common services and shared facilities essential for the PPG.
 - For single items of equipment or service contracts costing between \$10,000 and \$25,000, attach at least one cost quotation.
 - For single items costing more than \$25,000, attach at least two competitive quotes.

TFRI anticipates that the Applicants will seek other sources of funding to acquire the necessary capital equipment.

The following costs are **not eligible**:

- Remuneration for Project Leader, Principal Investigators, Co-Investigators, Collaborators
- Major equipment over \$10,000 not included in the approved budget
- Indirect costs such as overhead or infrastructure charges (e.g., institutional costs of research, building maintenance, rent, insurance, computer network charges, patenting costs)
- Laboratory and office furniture
- Membership fees
- Activities by researchers not part of the Application

iii. Program Costs

The final section of the budget worksheet is for Program Budget costs not covered in the Individual project and the core platform sections:

- Salaries of program coordinator/manager and other personnel who will enhance the collaborative research productivity of the application.
- Travel, meetings and networking activities *directly* related to the application, including costs of collaboration, planning and knowledge exchange activities, and costs to attend the TFRI annual scientific meeting. Requests can be made up to a maximum of \$15,000 per annum for new applications and \$25,000 per annum for renewals. This total applies to the full PPG program, inclusive of all projects and cores.
- An additional line item is provided for other costs.

The following costs are **not eligible**:

- Indirect costs such as overhead or infrastructure charges (e.g., institutional costs of research, building maintenance, rent, insurance, computer network charges, patenting costs).
- Entertainment or hospitality costs
- Activities by researchers not part of the Application

2. Overall Core Budget, including Other Funding (“Overall Core” tab on Excel Worksheet)

For situations in which a Core will form part of a larger institutional core, itemize all sources of annual revenue for the Core Technology Platform (Institutional, requested from TFRI, provided by other funders, and cost recoveries) together with a summary of all direct expenses involved in the use of the Core (including maintenance contracts). Specify the amount of revenue that is secured, under review, or to be applied for. If this criterion does not apply, please leave this section blank.

PART 5: Budget Justification

1. Overall Program Budget Justification

Provide a full justification for all budget items not covered in the individual project and core platform sections (for example: Program Manager). For travel and meeting requests, indicate the purpose of the trip(s), the people that will be traveling, and their destination(s), where appropriate.

2. Project Budget Justifications

For each project, provide a full justification for all budget items relative to the proposed research. If you include a need for research personnel and trainees, state their roles and explain why you require the level (in terms of qualifications and salary) that you are requesting. If these are named individuals, please provide details. Itemize the expendables and services; for example, number and cost of animals, nature and amounts of reagents, number of subjects, or number and cost of printing survey instruments. Please reference individual line items in the budget Excel file via the “Justification #” column in the worksheet.

For maintenance and/or equipment items included in this operating budget, indicate:

- the availability and status of similar equipment;
- the anticipated extent of utilization;
- reasons for choice of specific type, model or service contract, in relation to alternatives; and
- where applicable, the necessity for upgrading existing equipment or service contract.

If you are requesting or hold start-up funds to equip a new laboratory, detail any funds you have received or have applied for from other sources for this purpose (e.g. institutional sources) and how you intend to use these funds.

3. Core Budget Justifications

Provide a full justification for all budget items relative to each proposed Core Technology Platform. Itemize the expendables and services; for example, number and cost of animals, nature and amounts of reagents, number of subjects, or number and cost of printing survey instruments.

For maintenance and/or equipment items included in this operating budget, indicate:

- The availability and status of similar equipment;
- The anticipated extent of utilization;
- Reasons for choice of specific type, model or service contract, in relation to alternatives; and
- Where applicable, the necessity for upgrading existing equipment or service contract.

If you are requesting or hold start-up funds to equip a new laboratory, detail any funds you have received or have applied for from other sources for this purpose (e.g. institutional sources) and how you intend to use these funds.

4. Overall Core Budget Justification

Please see the discussion of the Overall Core Budget on page 17. In this section, please give TFRI sufficient context to understand the role of the core(s) for which funding is requested in relationship to the services and function of the larger institutional core(s).

5. Appendices – Supporting Documentation

Include all quotations (for equipment items > \$10,000), Letters of Commitment, Statements of Work, or other documentation pertinent to the budget justification.

Please make inquiries to:

Russell Watkins, PhD

Terry Fox Research Institute | l'Institut de recherche Terry Fox

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Vancouver, BC V5Z 1L3 CANADA

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✉ Email: rwatkins@tfri.ca