BCKDF Step 1 application for matching funds

General Advice

The application to BCKDF will only be reviewed by BC Government administrators and executives (i.e., Ministers). It is hard to understate how important it is to use plain, clear language, relatively simple sentences throughout the application. This means you ***MUST*** use lay language. This is probably the most common failure of applicants

BCKDF will receive a copy of your CFI application detailing your research. In this BCKDF application, focus on products and outputs that have potential to achieve BC government priorities. In other words, you want to give the Ministers the ammunition they need to justify to BC taxpayers why this is a good use of their money.

Sections 1-6. Fill in the fields

Section 7. Infrastructure Project Brief

There is maximum of **no more than five lines** (700 characters with space) to describe:

- What the project will study
- What are the expected outcomes of the project; and
- What are the main short- and long-term benefits for BC

Section 8. Suggested structure:

The instructions say 2 pages maximum. This means that the length of Section 8 should be no more than 2 pages. We strongly suggest an introductory paragraph to highlight the requested infrastructure and the research activities it will enable.

For each category, be sure to**:**

- Highlight the strategic value and benefits of your proposed project and requested infrastructure for British Columbia.
- Avoid generic statements – be specific, use examples, list names and stats
- Subsections and bullets are acceptable.
- While applicants must address all four categories, they are encouraged to emphasize those which are most relevant to their project.

8A Societal benefits for British Columbia

Describe other benefits for British Columbia that the investments in the infrastructure could generate. This may include social benefits, health benefits (e.g. reduced mortality and morbidity), economic benefits (e.g. reduced cost of public intervention and mitigation, enhanced competitiveness of the province), or international scientific reputation of the institution.

If part or all of the requested infrastructure is located outside of British Columbia, or if this is a portion of a larger national project, clearly state the benefits for the province in a separate paragraph.

Here you can describe any applicable social, environmental and/or health benefits that the research enabled by the research infrastructure will bring to BC. We strongly recommend you link these benefits to BC Government priorities (for example, environmental, natural resources, or health benefits can be linked back to priorities identified in some of the BC Government documents).

Try also to link with economic data if possible (for example, size of fisheries economic sector in BC, number of people affected by Cancer, cost of health treatments, etc…)

8A Economic Benefit - Talent development

Describe the potential for commercialization resulting from the research conducted with the requested infrastructure (e.g. potential for spinoff companies, patents, interest from industry or potential users, etc.). Highlight the degree of involvement of the research project with industry or commercialization stakeholders (e.g. direct industry funding or in-kind contribution, investors' interest, relation with commercialization programs, working collaborations). Commercialization may relate to research results, tools or processes enabled by the requested infrastructure.

Consider the following sample statements:

- The infrastructure development and/or the research activities will involve HQPs. How many and for how long?
- What skills will the HQP be acquiring? Skills, or combinations of skills, that are unique, mentored by researchers with huge experience in training (you can include track record here). Training programs associated to the facility (grad programs for example).
- Skills gained/enhanced by collaborating with industry in the projects. Consider also both HQP and industry personnel as potential learners in this evaluation.
- Those skills are in demand by industry, government (point to evidence). The HQP trained will have a competitive advantage and will fill a gap in BC companies.
- Examples of previous trainees that have gone to industry, government or academia (academia only won't be that effective).

8A Economic Benefits - Job Creation

Describe how and to what extent the research project and the requested infrastructure will contribute to job creation in British Columbia. This may include quantifying and specifying direct job creation (e.g. new researchers, technicians, support staff and students who will work on the project, jobs created for the construction or installation of the requested infrastructure), or demonstrating how the project may contribute to additional indirect employment in the province, for example as a result of commercialization or application of research outputs.

Consider the following sample statements:

- The development of the facility (and subsequent operations and maintenance) will directly employ: construction and trades people, technicians, support staff? How many, for how long, full or part-time, to do what?
- The research developed at the facility will directly employ (incremental only) students, post-doc fellows, technicians, support staff, or researchers? How many, for how long, full or part-time, to do what? Please note that MSc and PhD trainees are not considered job creation.
- The project will contribute to generating indirect employment as a result of commercialization or translation activities.
- Will existing companies grow and/or employ more people due to the products generated by the project?
- Is there a potential for new employment through a spin off company to bring advances to market?

8A Economic Benefits - Commercialization

Describe the potential for commercialization resulting from the research conducted with the requested infrastructure (e.g. potential for spinoff companies, patents, interest from industry or potential users, etc.). Highlight the degree of involvement of the research project with industry or commercialization stakeholders (e.g. direct industry funding or in-kind contribution, investors' interest, relation with commercialization programs, working collaborations). Commercialization may relate to research results, tools or processes enabled by the requested infrastructure.

Link the products and outputs with BC Government priorities and data about the economic impact/importance of the economic sector in BC's economy. Sources of information: your industry partners, BC Stats, sector strategies relevant to job creation.

8B Research Translation: Plans to achieve the expected benefits of the research

Describe the end users of the research outcomes and your plans and actions for realizing the potential of the research outcomes in both short and long term. You can name existing or planned collaborators and partnerships.

- Describe your plans and actions for reaching the intended end users e.g. academic conferences and journal publications to reach academic peers
- Describe any existing or planned networks that would be in place to reach the end users.
- Describe your expertise/skills and experience necessary to carry out the research translation plan

For technology transfer or commercialization plans some example text below to reference UBC resources:

"The University of British Columbia's (UBC) University-Industry Liaison Office will help the applicant to transfer, license and commercialize the knowledge and technologies developed in the proposed project. The UILO has developed and implemented a strong policy governing commercialization strategy is to maintain continuous communications between the PI of this project and UILO staff to ensure that every possible discovery and development (e.g. new

technologies, biomarkers, drug targets) is captured, protected and commercialized. Realization of benefits will be assured through the commercialization capacity of UILO as well as the intellectual property and relationships with commercial enterprises. An important part of UBC's extensive networking channels already in place. Based on research discoveries from this project, the UILO office will be actively engaged and provide fundamental support and mentorship through the creation and development of UBC spin-off companies, as well as in the development, licensing or patenting of new technologies. As of March 2017, UILO has been instrumental in creating 199 spin-off companies that have generated an estimated $11 billion to the BC economy and with national and international reach."

Include track record of UBC and researchers collaborating with industry and generating products. Try to be specific so that BCKDF sees that the track record is real: what companies have collaborated with you, on what, funded by whom, what results were accomplished and products developed. Any patents? Products that the company is now selling? Money generated by them? Spinoff companies created?