

Appendix A:

Research in Technology Fellowship (RTF)

The intent of the Research in Technology Fellowship is to provide opportunities for a student in UNBC Computer Science, Mathematics, Physics or a related discipline to be involved in research and scholarly activities. It is also intended to provide encouragement for faculty members to mentor UNBC students in areas of technology related research. **This fellowship is sponsored by TeejLab Inc. and each application will demonstrate how the student researcher will address an industry challenge in data and analytical science identified by the sponsor.**

The objectives of this program are to:

- Nurture local talent – permanent residents and Canadian citizens (both graduate and undergraduate)
- Offer industry exposure and solve real world problems – adds to student's resume
- Create closer link and ongoing relationship between UNBC and industry – Academic and industry mentors together help to solve real world problems
- Provide UNBC students with the opportunity to get involved in research relevant to the technology sector;
- Encourage their critical and creative thinking and inquiry;
- Enhance their understanding of the processes of knowledge creation;
- Develop their skills to design and/or carry out a project;
- Prepare them for the workforce;
- Improve their communication skills (written, oral, visual).

Please note:

- While the student researcher will hopefully contribute to the research of the faculty member or industry sponsor, the emphasis is on the quality of experience for the student, rather than the outcomes;
- The RTF is not intended to duplicate other research experiences, such as honours programs or independent/directed studies. A student that holds this Fellowship cannot be receiving a course grade for the research for which they are being funded in the year of the award;
- This Fellowship will initially be one time but may be extended for further years if funding continues.

Who may apply?

- Undergraduate or graduate students in Computer Science or Mathematics should submit an application for the RTF by December 17, 2018 highlighting their interest and commitment to a research project focused on the industry challenge identified by the sponsor.
- Students must be permanent residents or Canadian citizens
- The student should explain how they will integrate this research project into their academic and personal plan for the 2019 calendar year. The students should identify a UNBC academic mentor that will support them with the RTF

Who is eligible for a Research in Technology Fellowship:

- 'Full time' students (enrolled in a minimum 9 credit hours in each of 2 semesters in 2019), who normally will have completed 30 credit hours at the time of the award;

- The student will be eligible for one year of support;

Support available:

- One Fellowship of \$10,000 will be provided to the student for the 2019 calendar year
- The Fellowship value will be paid out to the student via weekly over the course of the calendar year;
- It is expected that the student will dedicate a minimum of 300 hours to the research activity during the year in which the award is made;
- The industry partner will identify one or more people from the company that will provide mentorship and support to the student on the project.
- Up to \$1,500 of additional support from UNBC may be available for travel costs to a research site.

Undergraduate research/scholarly activity experience activities may include (but are not limited to):

- working on research design;
- data collection;
- data analysis;
- participation in the production of a creative work, informed by research;
- knowledge mobilization/knowledge transfer activities.

Criteria for selection of project:

- quality of research proposal;
- potential richness of research experience for the student;
- clear expectations for learning outcomes.

Criteria for selection of UNBC student:

- academic record of student;
- lack of previous opportunities for involvement in supervised research in a university setting;
- permanent resident or Canadian citizen
- commitment to providing a summary of their research experience and short presentation of their work (see 'Commitments and Expectations', below);
- statement (150 words) written by the student regarding how this opportunity will benefit the student's UNBC learning experience.

Commitments and Expectations:

- The UNBC academic mentor will commit to providing feedback to the student during and at the end of the student's research experience;
- Student will commit to providing a short (2-3 page) report on research activities s/he engaged in, including title and 'abstract' of the research pursued (no more than 200 words), outcomes of the project, and assessment of experience;
- In the assessment of the experience students are encouraged to reflect on their learning and in particular are asked to respond to the following questions:
 - 1) Did the experience enhance your research skills? Please explain your response;

- 2) Did the experience enhance your understanding of the research process? Please explain your response;
 - 3) Did your experience address an industry problem or affect your ability to integrate research with real world applications
 - 4) Did the experience enhance your overall educational experience at UNBC? Please explain your response;
- A digital picture of the student, especially involved in the research, is much appreciated;
 - The title, abstract, picture (if available) and summary report may be used on the Office of Research or other UNBC websites and potentially in university newsletters and publications;
 - The summary report is due to the Office of Research by the end of February, 2020;
 - Student and faculty member will commit to completing a short evaluation of the RTF which will be used for ongoing program evaluation processes.

Process:

- The RTF will be announced both to faculty members and students in the fall of 2018. Faculty members may approach prospective students or students may approach prospective faculty members.
 - Faculty member and student will review the terms of reference and then complete the form. A single PDF version of this application is to be submitted to: research@unbc.ca. The file name should use the following format: LASTNAME_RTFAplication.PDF
-
- The best applications will demonstrate a strong alignment with the objectives of the RTF as noted above;
 - The Adjudication Committee will be provided with the applications within 24 hours of the submission deadline; a meeting will be convened in order that results can be announced within a week after the submission date;
 - The successful applicants will be notified by email;
 - The faculty member and student will be responsible for:
 - 1) signing a statement of commitment (see end of application form);
 - 2) ensuring a student award form is submitted within a week of being notified about the award (so that payments may commence).

Research in Technology Fellowship Selection Committee:

An adjudication committee will be chaired by the Director of Research and will include at least one faculty member from Computer Science or Math, appointed by the Dean of CSAM. Members of the adjudication committee should have a solid record of both conducting research and mentoring students.

If you have any questions regarding the award or award process please contact Mark Barnes, Director, UNBC Office of Research, at mark.barnes@unbc.ca.