



Seventh Annual MDDC Awards for Excellence in Biomedical Engineering Student Design & Innovation

Biomedical Engineering Design & Innovation Awards:

Principal Award (\$5,000)

Innovation Award (\$2,500)

COVID-19 Solutions Design and Innovation Awards:

Principal COVID Award (\$5,000)

Innovation COVID Award (\$2,500)

Grant

- Finalists that pursue their projects beyond the award date are eligible for additional support and mentoring by applying for an MDDC grant.

The MDDC Medical Device Development Centre of British Columbia ('the MDDC') is pleased to announce the renewed endowment of three MDDC Student Awards to encourage and recognize student innovators in technologies relating to medicine and health care, including medical devices, systems, software, apps and assistive technologies.

This year the MDDC is offering a 2nd stream of awards provided for innovative solutions to the COVID-19 pandemic.

COVID-19 Solutions ideas:

Visit our website www.mddc.org to see a list of projects ideas provided by front line health professionals in our BC health care system. Students can choose from this list or come up with their own problems that need solutions.

Awards will be given to innovative design projects developed by undergraduate, graduate students including medical interns or residents, enrolled in engineering, technology, or medical related programs at BC post-secondary institutions (including, but not limited to, UBC, SFU, UVic, UBC Okanagan, BCIT and Emily Carr Institute). Projects that are capstone projects for final-year students are eligible, as are projects that were carried out by

undergraduate and graduate students in 2020-2021 as well as projects from earlier years such as those projects from the 2019-2020 period. Self-initiated projects carried out by students are also eligible.

Students may be considered individually or as a team, and an individual student may be an applicant in more than one application for an Award. Teams may be multi-disciplinary and may be across different educational institutions.

Important dates:

Award applications deadline **midnight Sunday March 21st, 2021**

Finalists will be notified on or before **April 5th, 2021**

Finalists will demonstrate their project/prototypes on **April 24th, 2021**

Award applications will be accepted until **midnight on Sunday March 21, 2021.**

Finalist will be selected by an independent Selection Committee established by the Board of Directors of the MDDC. Finalists will be selected on or before **April 5th, 2021**. Finalists will present their projects to the Selection Committee on **April 24th, 2021** at a special event sponsored by the MDDC board. Note that the final event may be a virtual event, depending on the situation with the COVID-19 pandemic

Five criteria will be applied by the Selection Committee in evaluating projects:

- 1) Need being addressed in the project (e.g. biomedical, human, healthcare)**
- 2) Level of student achievement in creating the innovation**
- 3) Uniqueness and originality (competitive analysis, google search results, analysis of patentability are all encouraged)**
- 4) Design evaluation process and stage of development of the project (prototypes are encouraged but detailed designs are acceptable, showing the design process and any end-user feedback is encouraged)**
- 5) Projected biomedical, economic and social impacts, including likelihood of successful commercialization*.**

There is an application form provided on www.mddc.org/awards

*- The MDDC also has a grant application combined with mentoring for teams that wish to continue with their innovation to possible commercialization.

A written application with two-page (maximum) project summary addressing the above 5 evaluation criteria must be submitted. Applicants should also include a 3-5 minute video providing a brief introduction, highlights of your project objectives and goals, as well as the problem it solves, and if possible a brief demonstration of your concept.

Videos should be uploaded to YouTube, Vimeo or a similar service with a private or public link submitted. Videos can also be shared via Dropbox, Google Drive or similar.

The MDDC is a non-profit British Columbia society whose mandate is to advance the collaborative development, evaluation and commercialization of need-oriented medical technology. Over its more than 25-year history of successful, self-funded operation it has achieved an enviable track record of fulfilling this mandate. Further information about Medical Device Development Centre of British Columbia (MDDC) can be found by visiting www.mddc.org

In sponsoring these awards for innovation, the MDDC's specific goal is to discover and honour B.C.'s best and brightest young innovators in the field of medical technologies and biomedical engineering, and to encourage them to pursue their innovations in a rewarding and fulfilling field and career.

Terms and Conditions:

1. These Awards are intended to appeal primarily to students enrolled in: electrical and computer engineering, engineering physics, engineering science, mechanical engineering, biomedical engineering, or health care/medical programs at BC post-secondary institutions (including, but not limited to, UBC, UBC Okanagan, SFU, UVic, BCIT, and Emily Carr Institute).
2. Projects that are capstone projects for final-year students are eligible, as are projects carried out by students in earlier years. Self-initiated projects carried out by such students are also eligible for consideration. Multi-disciplinary teams are eligible and encouraged.
3. These Awards (certificates and cash prizes) are made to students directly and are not given to educational institutions or to any entities that may be project sponsors. The MDDC does not wish to receive any intellectual property rights in connection with the Awards and specifically disclaims any interest in any intellectual property rights.
4. **Applications for Awards must be received by 12 midnight Sunday March 21st, 2021** and must relate to a prototype suitable for demonstration **on April 25th, 2021**. Students should submit a brief project summary (two pages maximum, appended to the application form) that addresses the five evaluation criteria outlined above. Also, the students should submit a 3-5 min video. Videos should be uploaded to YouTube, Vimeo or a similar service with a private or public link submitted. Videos can also be shared via Dropbox, Google Drive or similar. No other special documentation is required. For its evaluations, the Selection Committee will rely on the two-page summary, and the video to identify the finalists. The selected finalists will be evaluated on the project documentation, demonstration of project by students, and interaction with students.

5. Finalists will be notified on or before April 5th, 2020, with an invitation to demonstrate their projects to the Selection Committee on April 25th, 2020. Award decisions will be made immediately after project demonstrations. The Selection Committee reserves the right to make no Award in one or more categories. Decisions of the Selection Committee, upon approval by the MDDC Board of Directors, are final and cannot be appealed.

6. Acceptance of an Award by a selected winner constitutes the winner's consent for the MDDC to use the winner's name, photo and some project information in publicity regarding the MDDC and the Award program.

For further information, or to obtain an application form, or to submit an application, contact: awards@mddc.org