



UBC BEST

BIOMEDICAL ENGINEERING
STUDENT TEAM

2023-2024 SPONSORSHIP PACKAGE



LETTER FROM THE CAPTAINS

Hello!

Thank you for your interest in UBC BEST. Our goal as a team is to have a tangible impact on our communities through biomedical innovation while providing our members with unparalleled opportunities for learning and personal growth.

In this 2023/2024 school year, we have 115+ members working across six unique project teams. From an internationally award-winning EEG system and a stroke rehabilitation pilot study to biochemical innovation and countless assistive devices, UBC BEST is working to innovate across all realms of biomedical engineering.

Since 2013: we've grown tenfold, built an esteemed network of alumni, and completed countless projects in collaboration with industry and academia, both locally and globally. Our newest partnerships allow us to volunteer directly with clients – delivering devices in consultation with real people who stand to benefit from our work.

UBC BEST is unique in that we offer a comprehensive mentorship program for our younger students: running supplementary technical and professional development workshops while providing them with hands-on experience through individual projects.

We're also heavily involved with outreach – you can find UBC BEST hosting seminars and industry nights, visiting schools and attending fairs all over the Lower Mainland. All of this with the goal of encouraging STEM literacy and excitement amongst the engineers of tomorrow.

With your help, we'll be able to ensure continued learning and growth for our students while making personal, local and international impact for many years to come.

All our best,
Coralie, Dundee, and Sze Lok





WHO ARE WE?

UBC BEST is a multidisciplinary design team of students from Applied Science (Engineering), Science, the Sauder School of Business, Land and Food Systems, and Medicine.

We consist of 6 subteams and are focused on developing context-appropriate solutions to medical challenges locally and around the world.



OUR MISSION

BEST's mission has always been threefold:

- Actively develop the **biomedical community** through engineering contributions, connections, and outreach
- Use a **context appropriate approach** to address medical challenges worldwide in **collaboration** with healthcare professionals
- Develop members both technically and professionally



DIVERSITY:

1. BEST is over 50% female
2. BEST is comprised of students from 8 different engineering departments and members from 7 faculties at UBC
3. BEST is open to undergraduate students as members, as well as MD, masters and PHD-level students as team advisors.
4. BEST is continuing to implement the new collaboration with the Designing for People Research Cluster connecting our students with medical teams in Malawi and promoting international diversity.

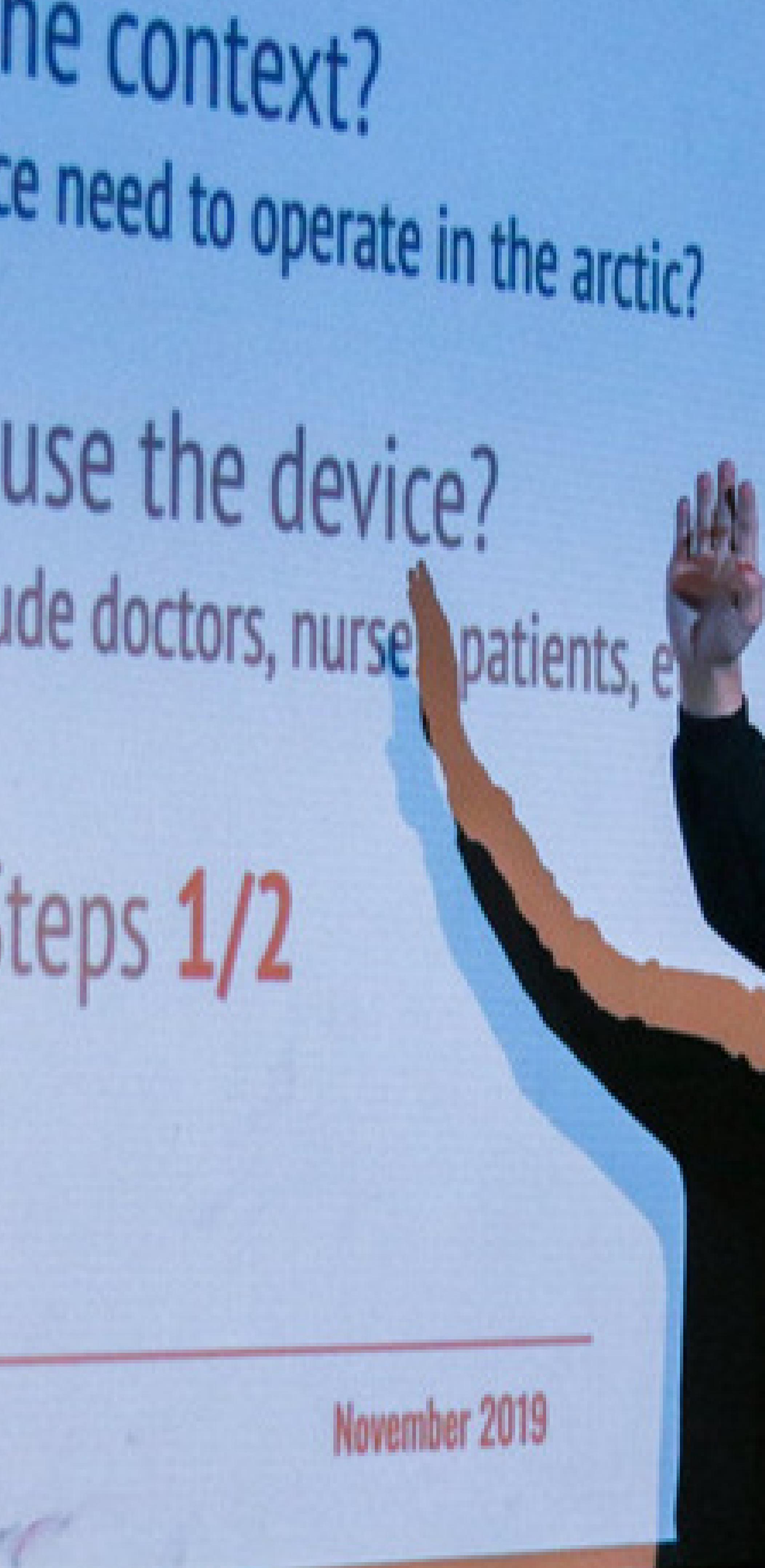


OUTREACH AND COMMUNITY ENGAGEMENT

UBC BEST places a tremendous amount of importance on our outreach to high schools and other student groups, taking any opportunity to teach youth about engineering and biomedical innovation. Our past community engagement activities include these very successful outreach campaigns which we hope to participate in again if given the chance.

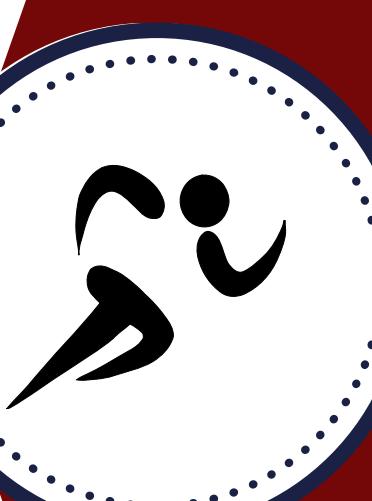
Examples of previous outreach events include:

- **“Introduce a Girl to Engineering Day”:** hosting six biomedical engineering sessions reaching over 120 girls in Grade 7 in the Vancouver area.
- **Shad Valley Engineering Night:** reaching a total of 240 exceptional high school students interested in engineering and business
- **Geering Up! Science and Engineering for Kids:** speaking to students and other UBC STEM camps to promote and educate about biomedical engineering.
- **Millenium STEMCon:** hosting a biomedical innovation workshop to encourage middle and high school students to think like engineers.



MEET THE SUBTEAMS

SPORTSMED [Content]



SportsMed analyzes common sports injuries and how we can help prevent and recover from these injuries.

ENABLE



Custom, client-focused assistive device initiatives in collaboration with the Vancouver chapter of the Tetra Society. Past projects include a blanket mover and an adaptive game controller.

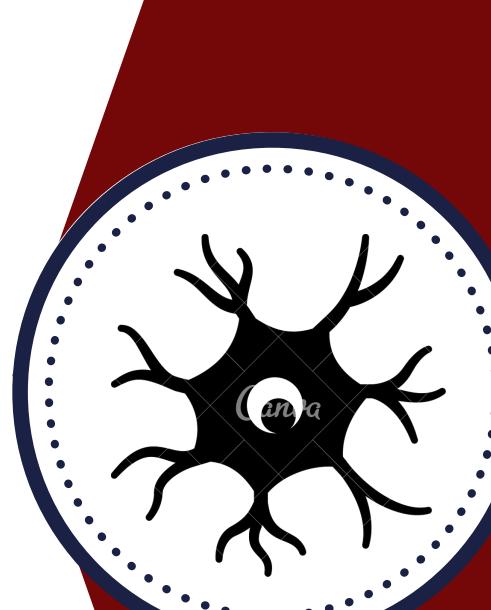


Modifying existing Xbox controller for a young man suffering from muscular dystrophy by:

- Developing alternative spring systems to make the triggers easier to press.
- Wiring modified buttons to the existing PCB and fitting them within the controller

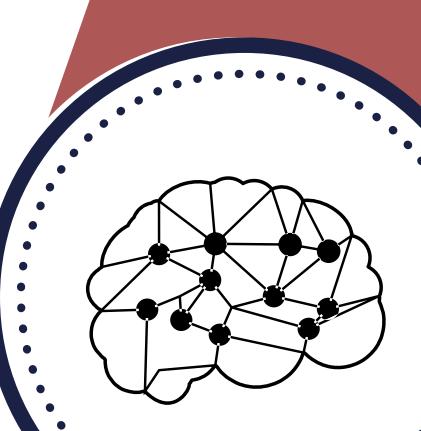


M2M MS to Movement

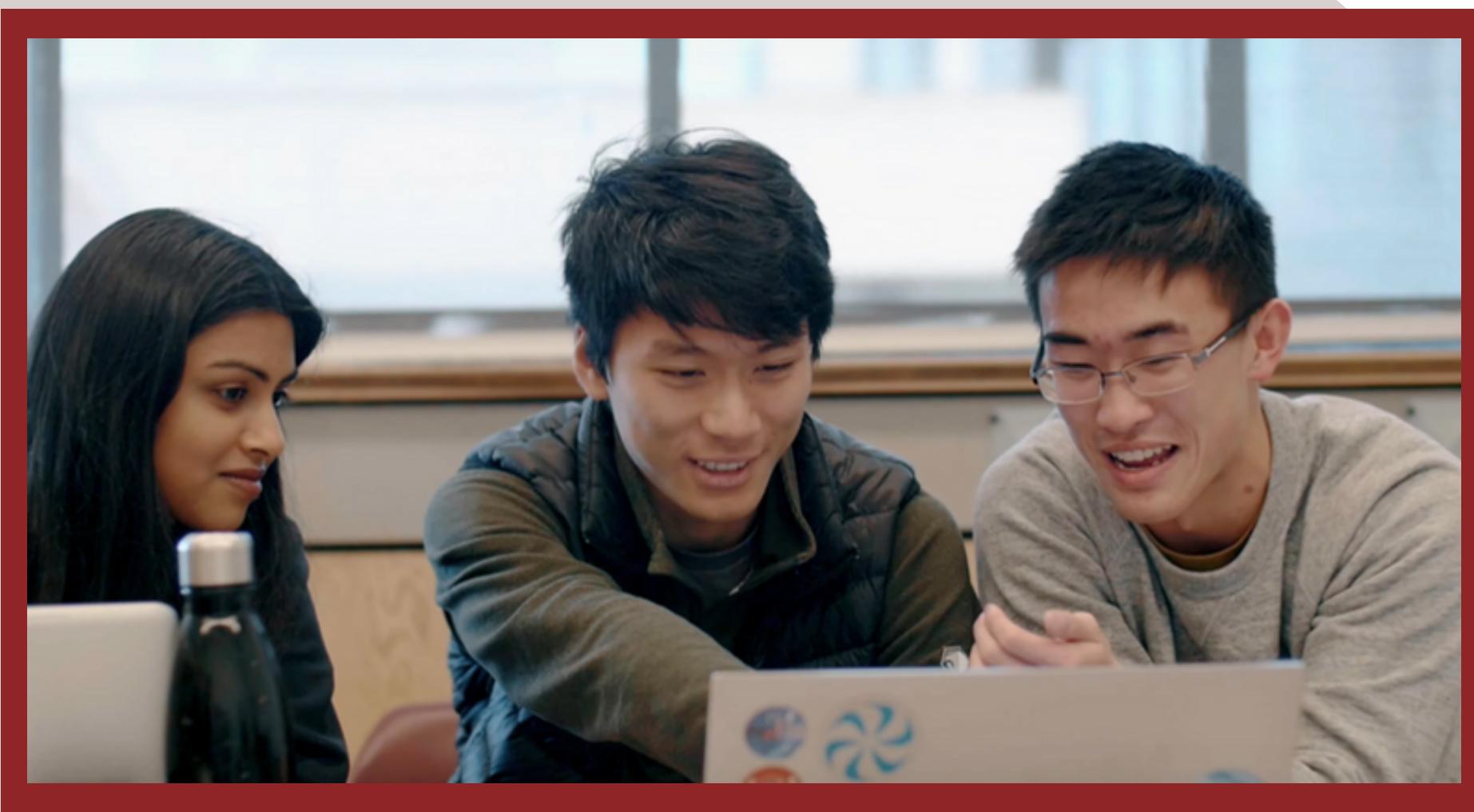


An MS-centric project aims at developing a therapy glove in combination with an interactive gaming interface to create a more motivating and engaging rehabilitation experience.

MINT Medical Innovation in Neurotechnology



Exploring accessible neurotechnology using EEG and annual submissions to the international NeuroTechX competition.



BIT Biochemical Innovation Team

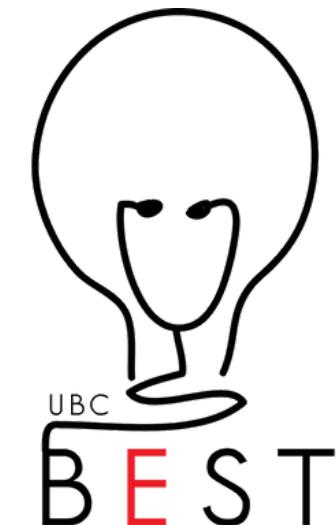


BIT investigates the impacts of Rutin and Quercetin on pancreatic β -Cell apoptosis and insulin secretion in primary human Islets and stem cell-derived islets

LIFELINE [Content]



Lifeline is a team dedicated to adapting and developing medical technologies for low-income settings to help improve accessibility of healthcare for all.



THE TIMELINE OF BEST



NOTABLE AWARDS AND RECOGNITION

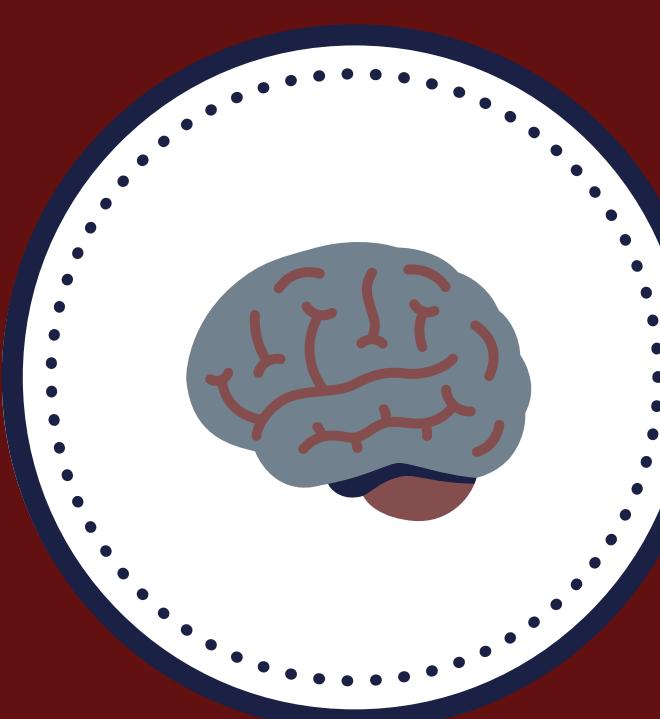
ENABLE



- 2023 Makers Making Change Grant WInners
- 2021 Simon Cox Competition People's Choice
- 2018 MDDC Awards for Excellence in Biomedical Engineering Student Design & Innovation

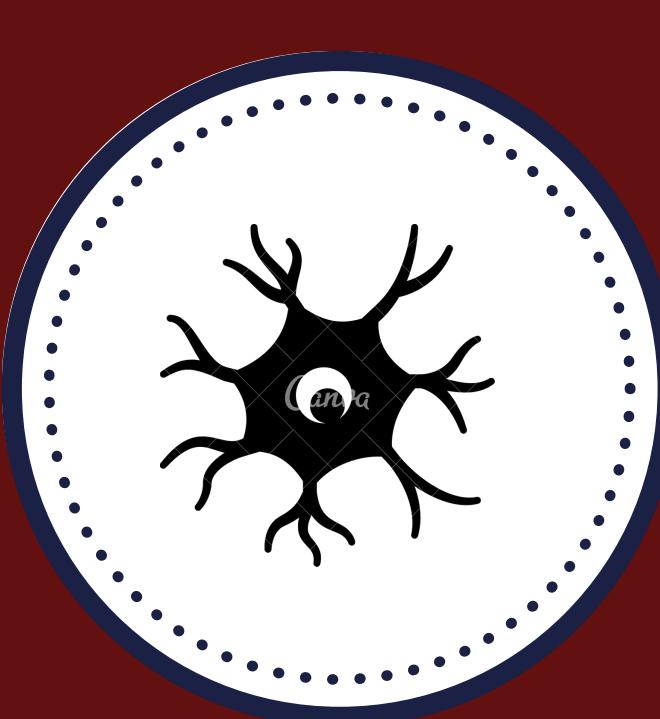


MINT



- 2020 1st Place in NeuroTechX Competition
- 2019 Best Student Team Poster in SBME@UBC Second Annual Symposium
- 2018 2nd in NeuroTechX Competition

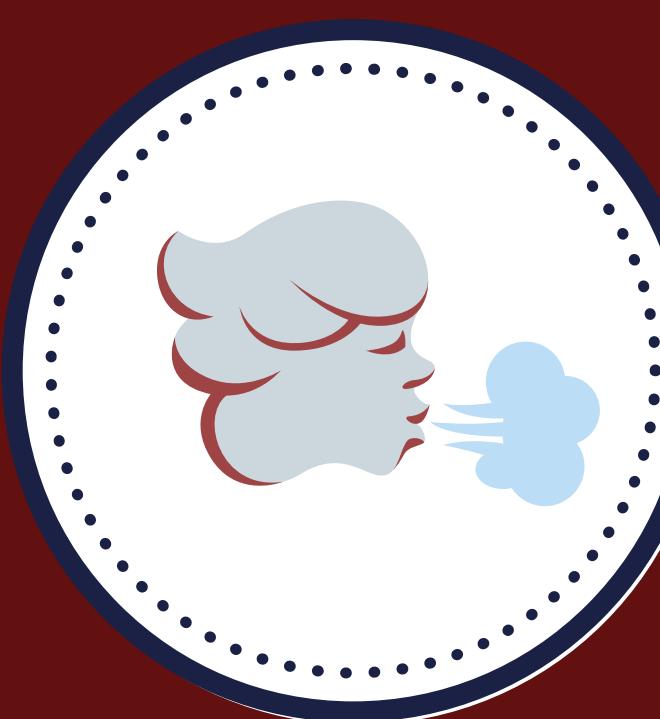
M2M



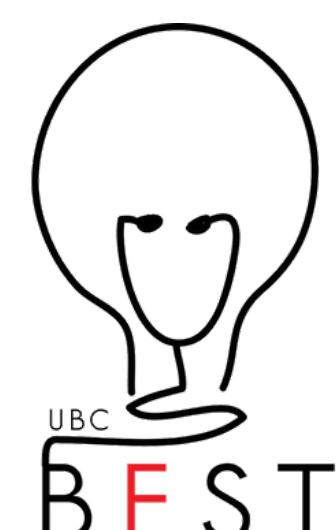
- 2016 RESNA Finalist
- 2016 MDDC Finalist
- 2016 PVCC Semi Finals



RRM



- 2017 3rd International Conference on Engineering Design (ICED) Presenter



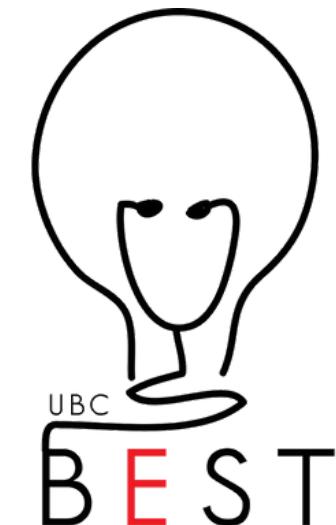
SPONSORSHIP TIERS

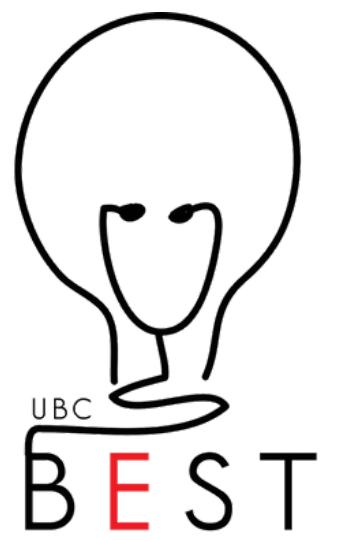
SPONSORSHIP LEVEL	PLATINUM: \$5000+	GOLD: \$2500	SILVER: \$1000	BRONZE: \$500
FEATURED ON UBC BEST SITE	✓	✓	✓	✓
LOGO ON PROMO MATERIALS	✓ (large)	✓ (medium)	✓ (small)	
LOGO ON TEAM APPAREL	✓ (large)	✓ (medium)		
UNIQUE THANK YOU POST	✓			

IN-KIND SPONSORSHIPS

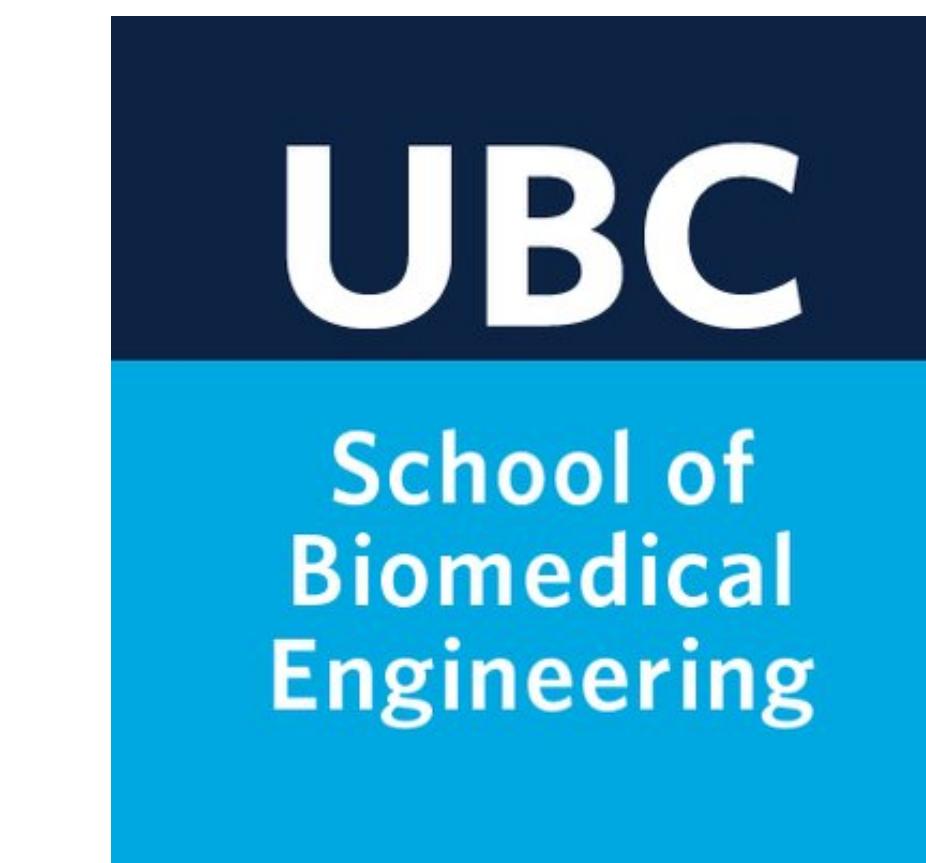
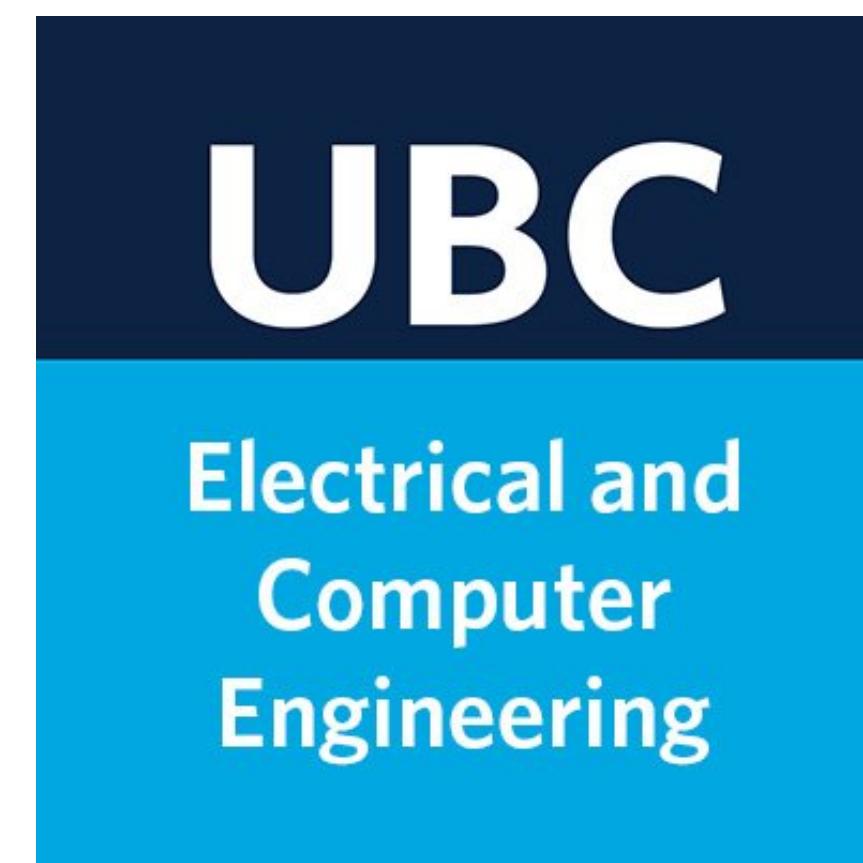
UBC BEST Values all forms of support and will accept non-monetary contributions such as:

1. Equipment donations (3D printers, tools, materials)
2. Storage, lab and workshop space
3. Expertise, mentorship and other support





OUR PARTNERS/COLLABORATORS



FACULTY OF MEDICINE

entrepreneurship
@ **UBC**

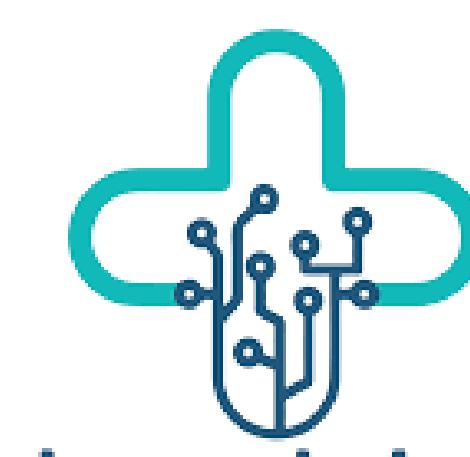


Makers Making Change
A Neil Squire Program



Tetra Society
of North America




Hatching Health

NGDI.ubc.ca
Neglected Global Diseases Initiative

 a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA



THANKS FOR READING!



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