



# QBiT

QUEEN'S BIOMEDICAL INNOVATION TEAM



**SPONSORSHIP PACKAGE**  
**2018-2019**

# A LETTER FROM THE EXECUTIVE

Dear Prospective Sponsor,

Established in 2014 as a multi-disciplinary design team, the Queen's Biomedical Innovation Team (QBiT) is the first of its kind at Queen's University. Currently engaging over 50 students and 16 executive members from combined disciplines of Mechanical, Electrical, and Chemical Engineering, as well as several other non-engineering faculties, QBiT's product design success has led to extensive faculty and international exposure.

Although our team integrates all areas of engineering, QBiT is branching out from an engineering dominated team to one that incorporates and collaborates with students from a variety of disciplines. This may include programs such as Life Sciences, Commerce, Nursing, and Kinesiology. This pivot to a more inclusive team will aid QBiT in achieving the highest quality outcome from its design process. Projects currently begin with original ideas and progress through a design process to achieve a working prototype. QBiT aims to further evolve the complexity of our projects and continue its string of international success. So far, QBiT's prototypes have placed bronze at the LIMBS International Summit, won \$19,000 at the Dunin-Deshpande Queen's Innovation Centre (DDQIC) pitch competition, and placed as a finalist at the Rehabilitation Engineers Society of North America's pitch competition. QBiT has thus shown to be very promising in its 4th year of existence and is becoming a staple within the university.

QBiT offers a unique experience to its students, distinctly different to that obtained within Queens' lecture halls. Experience in manufacturing, patenting designs, and exposure to clients provides unparalleled opportunities for team members. We are empowered to trust our engineering skills, work as a team, and create a client-centered solution that will have a meaningful impact. As a non-profit student organization, this letter requests your consideration in sponsoring our team. We hope that you will contribute to our continued success. Please review the attached sponsorship package for more information about the team and how to support us.

Sincerely,



Austen Lynds-Martin  
Manager of Finance and Sponsorship  
Queen's Biomedical Innovation Team

# OUR PROJECTS

2015 - 2016

## Para-Olympic Swim Training Aid

In its inaugural year, QBiT worked with the Penguins Can Fly, a swim team for those with disabilities, to develop a core stability brace. This aided to improve swimming technique and is adjustable for varying height and weight requirements.



2015 - 2016

## Knee-Ankle-Foot Orthotic (KAFO)

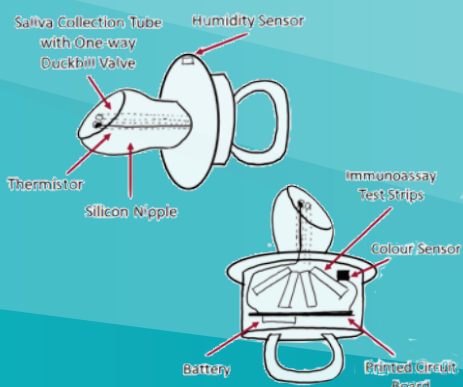
An affordable, modular knee-ankle-foot orthotic was developed to alleviate joint pressure and improve line of gait. This aims to provide accessibility for persons living in developing countries. It was designed to be adjustable, durable and easy to maintain at low cost.



2016- 2017

## Adjustable Grab Bar

Two years ago QBiT developed an adjustable grab bar for their client Brett Lyons. The invention is a grab bar apparatus where the position of the grab bar is easily and quickly adjusted to user preferences. Its safety features were highlighted at the Rehabilitation Engineers Society of North America's student pitch competition as it is self-locking at any selected position and chosen to be a finalist out of 100+ international applicants.




## Diagnostic Pacifier

As our first major chemical and electrical innovation. The goal of this project is to develop a low cost, portable, diagnostic pacifier, with the ability to test temperature, breathing rate and cortisol levels in saliva. In its preliminary stages, this project has a designed collection mechanism and a plan for developing the cortisol measurement system. The development of this project was continued in the 2017 - 2018 year.

# WHY DONATE?

Sponsoring Queen's Biomedical Innovation Team is an excellent way to enhance student interest in your company while providing a platform for the developing axis of biomedical engineering at Queen's.



Your sponsorship will allow you to develop an impactful relationship with engaged and knowledgeable students by enhancing the scope and caliber of research possible.

By providing financial support, equipment donations, or educational material, you will be furthering our student community, the continued learning of many bright students, and the careers of future innovators. Contributions of any amount and nature are greatly appreciated.

In addition to increased exposure to the team members, faculty advisors, and students of Queen's, there is also opportunity for an involved role in the design team. QBiT undertakes collaborative projects with sponsors and community members in efforts to diversify our design and project portfolio. Please contact us if you wish to partner with the team in the selection and development of one of our next innovations.





# CONTACT US

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