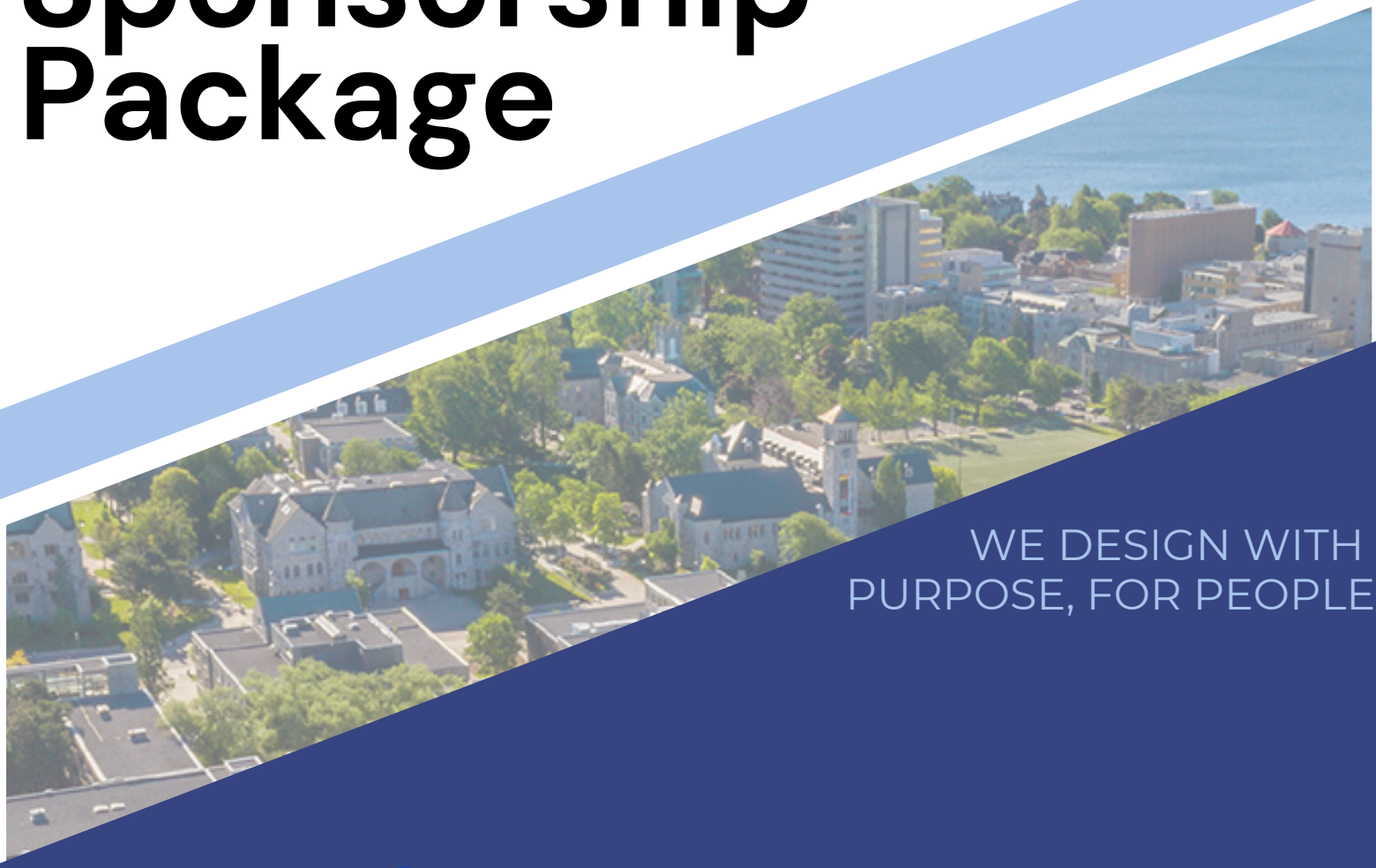
qbit@engsoc.queensu.ca

QBiT

2026–2027

Sponsorship Package



WE DESIGN WITH
PURPOSE, FOR PEOPLE

QUEEN'S BIOMEDICAL INNOVATION TEAM

2026-2027

QBiT

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Message from Co-Captains

Dear Future Sponsor,

On behalf of the Queen's Biomedical Innovation Team (QBiT), we would like to thank you for taking the time to learn about our team and the work we are pursuing this year.



Ruby Sinclair

At QBiT, our mission is to bring together students from engineering, science, health sciences, and business to develop innovative solutions to real-world healthcare challenges. Through interdisciplinary collaboration, our members gain hands-on experience designing, prototyping, testing, and refining technologies with the potential to make healthcare more accessible and effective.

This year, QBiT is continuing to grow both our technical projects and our impact within the Queen's community. Our teams are working on biomedical innovations addressing global health challenges, while our research, outreach, and educational initiatives provide students with opportunities to develop technical skills, collaborate across disciplines, and engage with healthcare innovation beyond the classroom.



Sabrina Packer

None of this would be possible without the support of our sponsors and partners. Sponsorship enables our teams to access the materials, components, testing resources, manufacturing capabilities, and other tools necessary to transform ideas into functional solutions. It also allows us to provide meaningful educational and professional development opportunities to our members and the broader student community.

A partnership with QBiT is an investment not only in biomedical innovation, but in the next generation of engineers, scientists, healthcare professionals, and problem-solvers. We are incredibly grateful to the organizations that share our commitment to innovation, education, and improving healthcare outcomes.

We would be thrilled to welcome you into QBiT's growing network of partners and work together throughout the 2026–2027 year.

Thank you for considering supporting the Queen's Biomedical Innovation Team.

Sabrina Packer & Ruby Sinclair
Co-Captains, Queen's Biomedical Innovation Team
2026–2027

QBiT

Message from Faculty Advisor

"It is my greatest honor to introduce QBiT and the remarkable students who continue to carry forward its mission of using engineering to create meaningful impact around the world. What has always made QBiT special is that its projects begin with people. The team is not simply building technologies for competition or technical achievement; they are working to make healthcare and engineering solutions more accessible, practical, and responsive to the needs of communities that are too often underserved.

This year, that mission continues through three exciting projects. Q-CARE builds on QBiT's long-term partnership in Thailand to advance accessible prosthetic technologies and strengthen a sustained model of global engineering collaboration. IoDetect continues the development of the team's microfluidic diagnostic platform, with a focus on safer processes, stronger validation, and progress toward publication. PulsePoint, developed in collaboration with Ghana Medical Help and engineering partners in Ghana, aims to create a low-cost fetal Doppler for clinics facing limited maternal healthcare resources and unreliable access to power.

These projects reflect a tradition that QBiT has built over many years: combining technical excellence with compassion, accessibility, and global responsibility. The team's work has been recognized through numerous national and international awards, but what I value most is the way QBiT challenges students to think beyond whether a technology can be built, and instead ask who it serves, whether it is accessible, and how it can make a lasting difference.

Sponsorship is what allows these ideas to move beyond the drawing board. Your support helps students prototype and test new technologies, work directly with international partners and end users, attend competitions and conferences, and move promising ideas closer to real-world impact. Just as importantly, it helps train a generation of engineers who understand that innovation carries both technical and social responsibility.

I am incredibly proud to serve as QBiT's Faculty Advisor, and I am grateful for your consideration in supporting this exceptional team. I look forward to seeing where their creativity, ambition, and commitment to global impact will take them next."



Xian Wang, PhD
Assistant Professor, Department of Mechanical & Materials Engineering
Core Member, Ingenuity Labs Research Institute
Associated Member, Sinclair Cancer Research Insitute
Chair, Technical Committee on Microtechnology and Nanotechnology,
Canadian Society for Mechanical Engineering

QBiT

Message from Faculty Advisor

"As co-faculty advisor for the Queen's Biomedical Innovation Team (QBiT), I want to highlight what I think makes this team different from most design teams on campus. QBiT's efforts are genuinely interdisciplinary, and that shows up in how the students work together to tackle complex, real-world biomedical challenges. The team's roster draws from across Smith Engineering, as well as from commerce, life sciences, and other faculties. On any given project, you'll find a commerce student handling budget and stakeholder relations right alongside a biology student working through clinical validation questions, together with engineering students working on technical design.

These aren't classroom exercises. Past and current projects include a point-of-care iodine screening tool for low-resource settings, an accessible neonatal jaundice detector, chest wall oscillator vest, and an ultraportable ECMO device. What ties these projects together is that all of them are aimed at closing real clinical gaps. A number of these projects are specifically trying to reach patients who are underserved by existing medical technology due to cost, geography, or lack of access to specialized care. Students on this team learn early on that a medical device is only as good as its ability to reach the people who need it.

Supporting QBiT means supporting the kind of training that biomedical industry is looking for: students who have worked across the biomedical landscape under real constraints and with real clients on technologies that are meant to leave the lab and help people who need it. It's a rare and unique experience at the undergraduate level.

Thank you for your sponsorship consideration. I've been working with QBiT students for the last eight years, offering technical guidance and assistance on several past projects. I'm genuinely proud to advocate for them as one of their faculty advisors. I hope you'll consider joining me in supporting what they're doing."



Roshni Rainbow, PhD PLEng
Associate Professor, Department of Mechanical and Materials Engineering

Meet the Exec Team

QBiT



Nadia Bastasic,
Chief Operating Officer



Bianca Wilks,
Chief Technology Officer



Cecilia Sly,
Chief Financial Officer



Tharunika Gnaneshan,
Chief Communications Officer



Olivia Parrott,
Director of Sponsorships



Cole McCauley,
Chief of Q-CARE

2026-2027

About Us

QBiT

Goals

Queen's Biomedical Innovation Team introduces undergraduate students to biomedical engineering, explore practical applications of the engineering curriculum and promote interdisciplinary collaboration **to solve common problems within the field of medicine.**

Projects

QBiT strives to develop projects spanning multiple areas of biomedical technology. Our projects aim to **utilize cutting-edge mechanical, electrical, and biochemical systems** to design and manufacture physical solutions.

The Team

The team is comprised of **100+ undergraduate students** spanning all years and faculties of study at Queen's University in Kingston, Ontario, Canada. The team is supported by a handful of professors and graduate student advisors.







QBiT

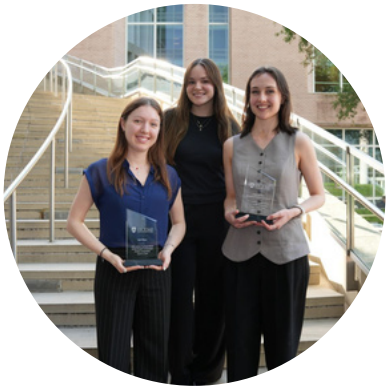
Accomplishments

Events, Conferences and Competitions



CUBEC CONFERENCE - January 2026

QBiT placed **1st overall** at the Canadian Undergraduate Biomedical Engineering Conference at the Student Pitch Competition for **IoDetect**.



RICE 360 DESIGN COMPETITION - April 2025

QBiT represented Queen's University and earned **2nd place overall** and the **Public Invention – Incremental Improvement Award** for our **A.R.M. prosthetic project**—highlighting our team's commitment to human-centered, globally accessible engineering.



RESNA COMPETITION - May 2025

QBiT's project **A.R.M: Advancing above-elbow prosthetics with patient-centric and open-source designs placed 1st overall** at the student design competiton in Chicago, Illinois.

We consistently strive to create global impact with Biomedical Innovation.

2026-2027

QBiT

Sponsorship Tiers

Work with us!

BENEFITS	Tier I $500+	Tier II $1000+	Tier III $3000+
Job and internship postings shared with QBiT members	X	X	X
Opportunity to host a technical workshop or career panel		X	X
Logo size on team merchandise	S	M	L
Sponsor recognition on QBiT's website and social media	X	X	X
Dedicated sponsor spotlight post		X	X
Priority access to team reports, data and research			X
Job and Sponsor Logo included on projects and presentations			X

QBiT

How to Contribute



Funding through cash or store credits

These are two preferred methods to help the team fund projects directly. Our team will use a budget sheet that is transparent to our sponsors.

Supply equipment and/or resources

Services such as CNC Machining and 3D printing allow our designs to be more refined.

Tools or Software

Computer-Aided Design software and simulation tools are important to our design process. Mechanical tools are also always essential to us!

Active Partnerships

With an experienced executive team, we are able to work with our partners to run events or training sessions for students at Queen's. Please reach out to us!

Thank you for your consideration!



Thank you for choosing Queen's Biomedical Innovation Team. We look forward to working with you!

Contact Us

qbitqueensu.com

qbit@engsoc.queensu.ca

300 Beamish-Munro Hall,
45 Union Street, Kingston ON K7L 3N6

@qbit_queensu

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