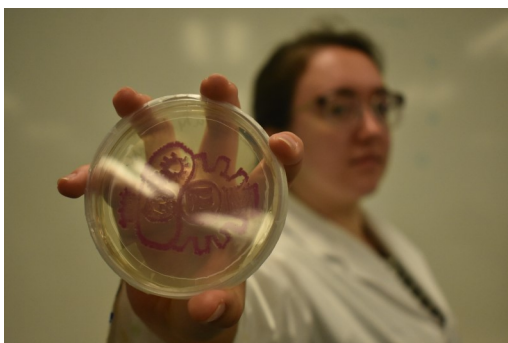


What is iGEM?

The International Genetically Engineered Machines (iGEM) Foundation is a non-profit organization dedicated to the education and advancement of synthetic biology, as well as promoting an open science community and collaboration. Student teams around the world build genetically



engineered systems using standardized DNA parts called BioBricks and showcase their parts at the Jambo-ree, competing for various awards and prizes.



Waterloo iGEM—Women in STEM

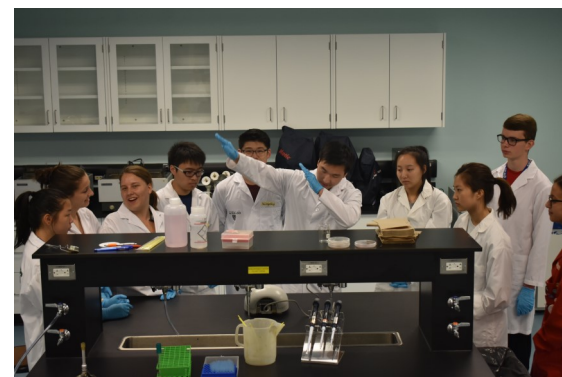
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iGEM & WiSTEM



A Brochure on Synthetic Biology

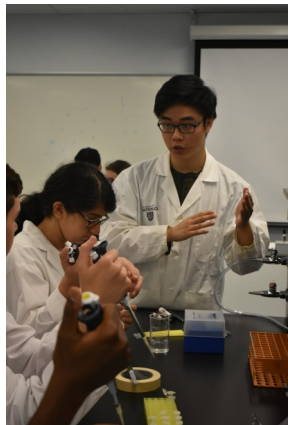


Innovating what biology can accomplish since 2004.
Women in STEM, a club that advocates for equality.

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What is Synthetic Biology?

A simple way of saying it is that synthetic biology is an interdis-

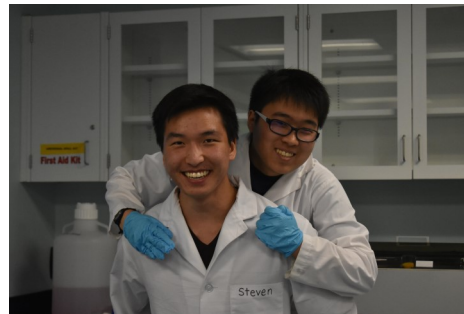


ciplinary branch of biological science and engineering. That is, it is the field where biology and engineering

design meet. The domain of synthetic biology combines various disciplines of science and engineering such as biotechnology, evolutionary biology, molecular biology, systems biology, biophysics, computer engineering,

What are we trying to accomplish?

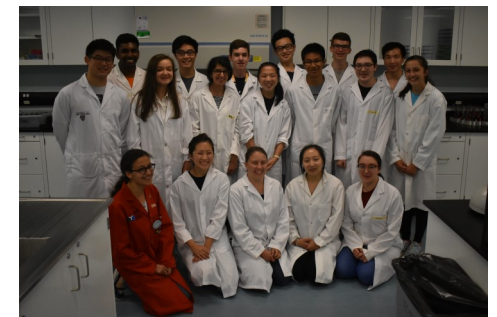
Waterloo iGEM is divided up into three teams: the mathematical modelling team, the lab and design team, and the policy team. The policy team exists to support the team by assessing the non-technical aspects such as the ethics, biosecurity, safety, communication and laws involved with the project.



This includes working towards gender equity in the field of synthetic biology; for example, by co-hosting a panel discussion on gender inequality in the STEM fields with WiSTEM. WiSTEM hopes to deliver a regular programme of events spanning all STEM topics which promote collaboration, creativity, and open-mindedness to all students. They believe that no matter how small, we can make a difference.

What is WiSTEM?

Although they focus on the issue of gender imbalance, they encourage both males and females, and anyone with a connection to STEM to participate. Their activities are a mix of skills workshops, topical discussions, social events, speakers, and special trips. They connect young women and men in STEM by building a community to share ideas and learn new skills. They empower young minds with the skills to become forward-thinking and driven leaders. They advocate for women in STEM fields, educate, and raise awareness about the growing community.



Waterloo iGEM

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