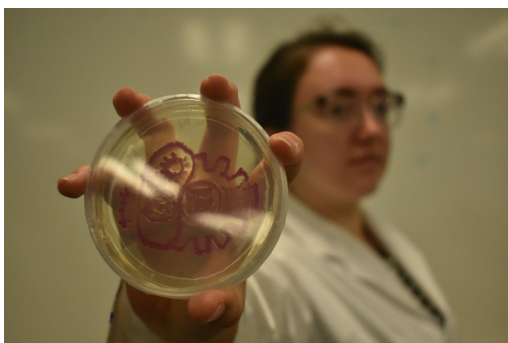


What is iGEM?

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 Jamboree, competing for various awards and prizes.



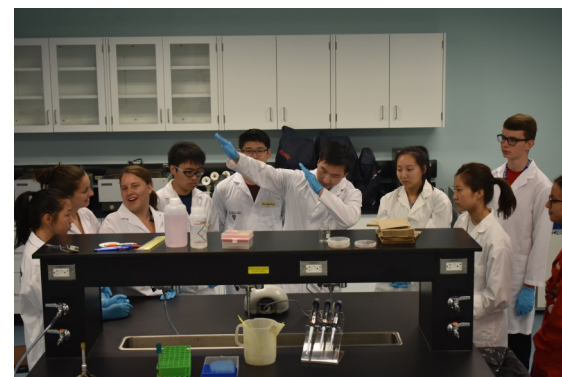
Waterloo iGEM

200 University Avenue West
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iGEM & SHAD Valley

 A Brochure on Synthetic Biology

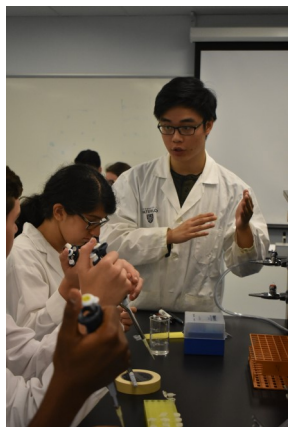


Innovating what biology can accomplish since 2004.

E-mail: uwigem@gmail.com

What is Synthetic Biology?

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

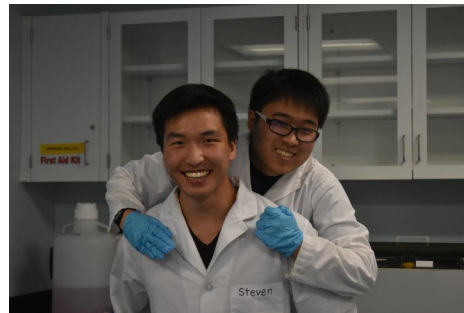


disciplinary branch of biological science and engineering. That is, it is the field where biology and engineering

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 is Waterloo iGEM trying to accomplish?

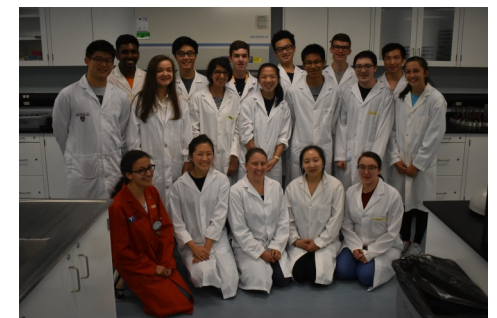
Waterloo iGEM is divided up into three teams to accomplish its goal: The mathematical modelling team to create models to test hypotheses and predict optimal conditions for experiments, the lab and design team to test out the models the math team has developed via lab experiments,



and finally the policy team to support the team by assessing the non-technical aspects such as the ethics, biosecurity, safety, communication and laws involved with the project. Together as a team, we try to build a creative, meaningful, impactful, and relevant biological system to make a difference in the world.

So What?

Now that you know the gist of what we do, go ahead and try it out for yourself! Search for a high school or university team in your area. It doesn't exist yet? Then you can start your own team! Here are the basics that you'll need: at least two instructors, teammates, funding, space to work, registration, and PASSION! There are also a list of regulations to follow when starting your own team. For more information, visit www.igem.org/Start_A_Team.



Waterloo iGEM

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