

ENGINEERING EXPLORATION CAMP

This program will introduce students to mechanical engineering, civil engineering and biomedical engineering topics. Hands-on activities will be part of this exciting program.

WHO?

9-11th grade students

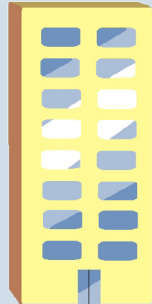
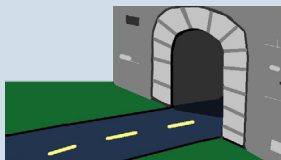
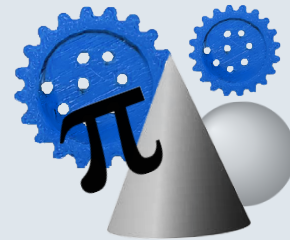
WHEN?

February 21st - 23rd, 2023
Time: 9AM - 12 PM

WHERE?

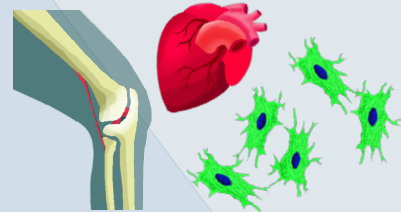
Lobby of the Engineering Building

Mechanical Engineering: Students will be exposed to a number of different mechanical concepts, including force, torque and moment, lift and drag and basic measurement instruments and principles to measure these quantities. Students will work collaboratively on a project that exercises the topics discussed. A simple analysis will be made to estimate the expected performance, after which the students will test their project in an experimental setup to compare with the predicted performance.



Civil Engineering: Students will learn about various sub-disciplines of Civil Engineering, and then get a glimpse of what the structures of the future might be like. They will learn the basic principles of shape-morphing structures, that can reversibly switch between drastically different configurations, and their applications on Earth and beyond; and they will also have the chance of putting their creativity to work in a create-your-own-extreme-structure contest.

Biomedical Engineering: Students will learn about how technologies affect biomedical research and health care. Topics will include genetic engineering, bioimaging, bioinnovation, and more. Students will also have the opportunity to build their own devices for bio-mechanical or bio-electrical testing and analysis.



REGISTRATION LINK

<https://tinyurl.com/engexplcamp0223>

DEADLINE

February 12th, 2023

COST

\$30



Stony Brook University

For further information, email Kathleen.dinota@stonybrook.edu.