Tech PREP & STEM Tech

Tech Prep and STEM Tech Mission: To provide repetitive exposure to STEM experiences and build confidence and competence in students abilities.

Tech PREP Program Project Based Learning

Experiential learning program for Middle School students from two underserved school districts (60 students) on Long Island.

Three progressive educational modules: Computer Science, Math and Physics, Engineering and Innovation. Students engage and are mentored by college students. All participate in Women in Engineering Day.

STEM Tech Program

This service-learning program is for middle school and high girls from high needs communities. It is community based and rooted in issues that students feel passionate about. Students research the issue, and using the Engineering Designed model explore possible solution. Reflection is part of the curriculum. Groups are co-facilitate by college mentors and community partners.



Experiential Learning Programs at Stony Brook University Carrie-Ann Miller, Director of Experiential Learning for STEM-Smart Programs

Experiential Learning Design Model

Identification of issues that are concerning Meaningful exploration and discussion Engineering Design Model or Problem Solving Model Application of Classroom knowledge Connection to other real world issues that promote social good!

Reflection is an important in Experiential Learning

How do I feel about what I did? Observations about group dynamics(Process)

What can I do next?

How can I apply what I learned to another project?

STEM Tech and Tech PREP Industry and Community Partners

Motorola Solutions Foundation Long Island Community Fund Local School Districts Brookhaven National Laboratory Center for Leadership and Community Engagement Girls Inc. of Long Island Girl Scouts of Suffolk County

Interdisciplinary Global Internships



The Humanology Projects Mission: to provide every individual affected by mental and neurological illness a voice and the resources needed to understand and cope with the effects of their illness. Web based project

www.humanologyproject.org



Mosquitoes Be Gone Mission: To develop, market, and sell an all-natural mosquito repellent that will reduce the prevalence of mosquito transmitted diseases worldwide. Proceeds from the project are to be used to purchase and donate repellents to developing countries.

Acknowledgements: Mr. Paul Seigel, Co-Founder of Tech PREP and STEM Tech, Dr. David Ferguson for giving me the wonderful opportunity to work with the STEM Smart programs. Neha Kinariwalla,Founder of The Humanology Project, and Ruchi Shah, Founder of Mosquitoes Be Gone.