Design Challenges

BioTech

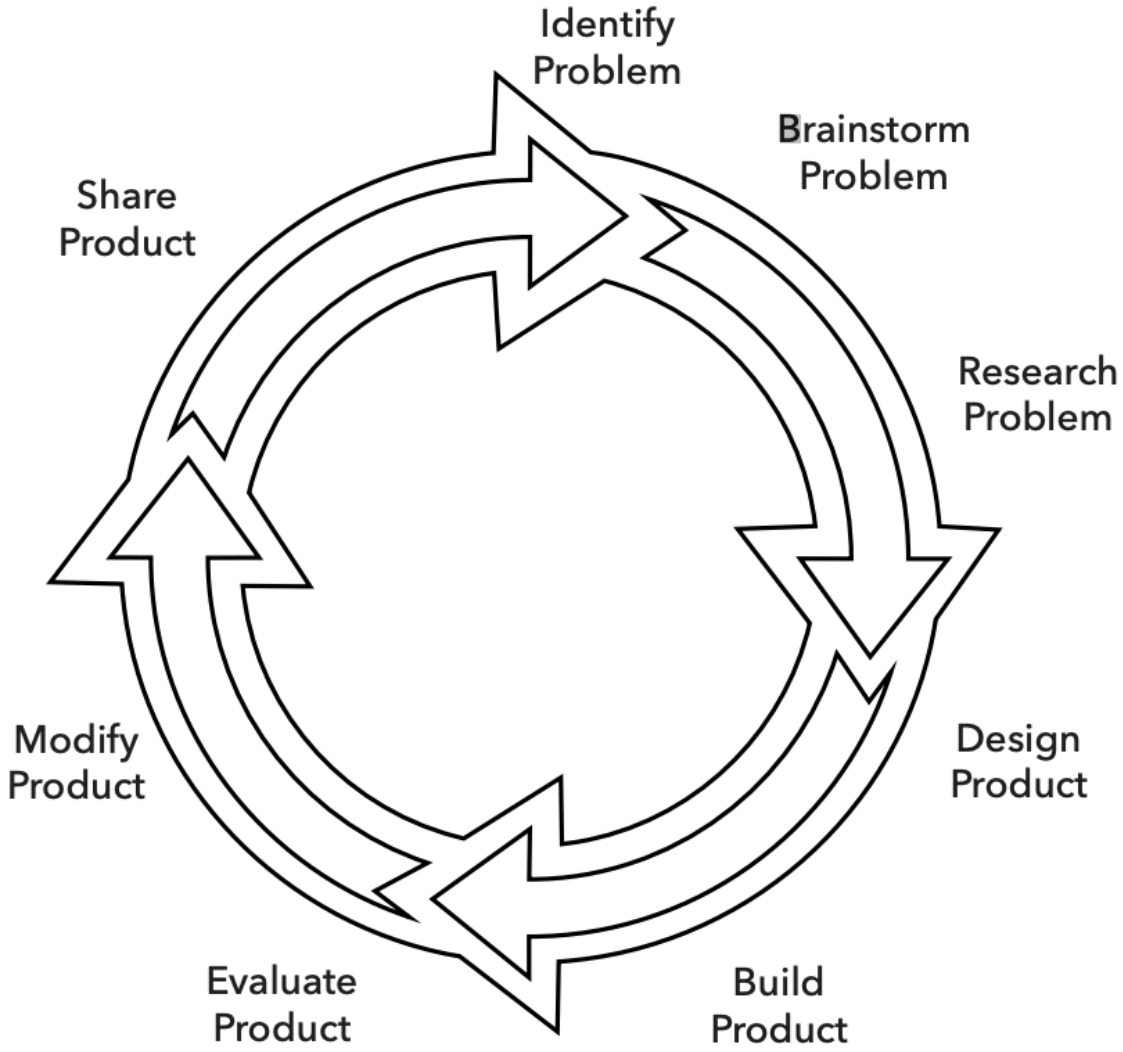
BioEngineering

Renewables

BioChem

The Design Cycle

Where Are You?



BioTech Design Challenges

- Creating a Bleach Substitute
- Creating Cleaning Wipes
- Creating BlueKote and Its Use
- Rabbit Sanitation and Washing
- Creating a Pressure Washer System
- Infrared Temperature Reader
- Sanitation 101

- Lewis Structure Spelling Bee

BioEngineering Design Challenge

- Creating a Simple Pump
- Understanding Ratios
- Water Purification Filter System
- Designing a Perfect Cage
- Building a Portable Hydroponics System
- Scratch Code For Artists
- Scratch Code For Python Snakes
- Using Light and Heat Efficiently
- Atmospheric Sensor Array
- Reverse Engineering a Simple LED Light

Renewables Design Challenge

- Electricity 101
- Voltage, current, amperage, and power
- What is a conductor and what is a resistor?
- Building a Simple Battery
- Building a Simple Motor
- Building a Simple Resistance Meter
- Building a Simple Electromagnet
- Building a Simple LEGO Electric Brushless Motor
- WindTurbine Data Systems

BioChem Design Challenges

- Designing a Model of the Organism Body to Energy
- Composting 101
- Building a SoldierFly Santuary
- Refactoring an LED Lamp to become a Chemical Light
- Creating a Balanced PH Reader

- Water Purification Strategies
- Creating Immune System Popsicles