



U.S. DEPARTMENT OF ENERGY
AlgaePrize
NextGen Algal Innovators

Team Name:

Blue Genes

Team School/Organization:

Solano Community College, Fairfield, CA

Abstract:

Our project is designed to create a product that will bring the community together to create art, learn about algae, and shine a light on the blossoming field of biotechnology in the Vacaville area, with a special focus on increasing diversity, equity, and inclusion within the industry. We are going to create an algae-derived dye that will have a wide range of potential applications, and we are going to develop standard operating procedures and maintain batch records on our project, analyzing the data using systematic approaches such as Design of Experiments to our data in order to focus on process optimization and improving output. We will develop and refine upstream and downstream processing methods that will create the greatest output for making this an algae that could be used in large-scale production and finding ways to use the byproducts to make an additional marketable product instead of having product and waste. Furthermore, we will be designing our process and procedures with regulatory agencies in mind, and our ultimate goal is to help expand the horizons of algae as an expression system in biotechnology.

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