

Feseha Abebe-Akele



Mentor 1: Mohamed Elbakary - ECSU

Mentor 2: Qimora Mason - ECSU

Home Institution: Elizabeth City State University

Target Course: Bioinformatics for NGS data analysis.

Target Course Number: BIOL 522

Anticipated Enrollment: 5-12

Science Gateways Resource Needs/Questions:

- *Need/Question 1: Big data analysis (tools)*
- *Need/Question 2: Data generation support*

Project Goals:

- *Science Gateway Goal: Enable students to use Science Gateway tools for big data analysis such as [EDGE-Bioinformatics-Gateway](#), [Microbial Genomes Atlas](#), [Searching the SRA](#)*
- *Goal 1: find out resources for data generation (Financial)*
- *Goal 2: Feasibility study on applying AI/ML to the course. (Mentors)*
- *Goal 3: Train students to integrate and visualize results from multiple science gateway platforms.*
- *Goal 4: Build a sustainable framework for incorporating new tools and datasets into the course.*