



Developing Resilient Agricultural Research and Education System to Enhance Sustainability

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Objectives

- ❖ Promote awareness and interest among pre-collegiate high school and undergraduate students through experiential learning, workshops, and field visits;
- ❖ Develop technical skills in sustainable practices such as conservation agriculture, and innovative approaches like probiotics and prebiotics, plant extracts;
- ❖ Enhance career readiness by equipping students with practical knowledge in farm business management, marketing strategies, and mentorship.
- ❖ Evaluate program impact through short-term learning assessments and long-term indicators such as career choices and sustainable practice adoption.

Project Activities Overview

Educational Workshops: Delivered training in conservation and soil health, digital strategies in Agriculture, animal productivity, urban agriculture, and financial planning for small farms.

Field Visit & Demonstration: Provided real-world exposure through an on-farm tour and a hands-on demonstration.

Mentorship: I received one-on-one mentorship from faculty mentors, including Dr. Kingsley Ekwemalor and Dr. Osei Yeboah, supporting research skill-building and career development.

Curriculum Development: Developed sustainability-focused training modules supported by fact sheets to enhance agricultural education.

Community Engagement: Collaborated with local organizations to host events and showcase the students' projects while encouraging involvement in farmers' markets and community-supported agriculture initiatives.

Evaluation & Outcomes: Conducted surveys and feedback sessions to assess learning gains, documenting



Greyson discussing with farmers



Dr. Ekwemalor at a field demonstration



Workshop participants in Washington, NC



Workshop with farmers



Greyson Hayes



I & my mentor, Dr. Ekwemalor

Conclusion

This project supports the mission of the SSARE James Harrison Hill, Sr. Young Scholar Enhancement Grant Program by empowering a young scholar with foundational skills in sustainable agriculture. Through targeted mentorship, hands-on experiences, and structured training, the project strengthened my understanding of sustainability challenges and solutions. This early engagement helps cultivate future leadership in sustainable agriculture.

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