

Empowering the Future Energy Workforce



Brief Description:

- Development of a Renewable Energy academic program to empower the future energy workforce.
- Focus on engaging underserved and under-represented participants in the Greater Houston and Tyler, Texas areas.
- Pilot implementation of six-week Summer Program followed by Fall offering in 2024.
- Workshops and networking with local industry professionals in Texas where green energy industry is growing.

Sustainability Goals:

- Education and support of participants in local communities in solar power and other renewable energy applications.
- Emphasis on learning, analyzing, and testing sustainable energy systems such as solar-powered EV charging and desalination.
- Aiming to reduce greenhouse gas emissions through clean energy education.
- Preparing over 100 future clean energy engineers in pilot program in local communities where over 30% are Hispanic.

Program Impact:

- Preparing future engineers for careers in the renewable energy industry.
- Introduce hands-on learning projects on solar-powered applications.
- Incorporation of renewable energy concepts and experimentation in curriculum.

Program Module Content:

- Utilize engineering tools in testing the renewable energy systems through practical activities.
- Engage in enhanced learning experiences using video tutorials and step-by-step guides.
- Develop problem-solving skills in collaborative settings.
- Implement hands-on activities centered around renewable energy.