Project Budget- Baltimore Social Environmental Collaborative (PI- Dr. James Hunter)

Job Title: Undergraduate Engineering Intern   **Department:** Physics (Climate Science Division)

Report To: Dr. Shamara Collins   Co-I - Dr. Richard Damoah

Effective Date: Immediately – 12/16/24

Job Summary:

Undergraduate student to support the Climate Science Division's research projects. Background in the area is not required but applicants interested in the environment, climate change, and renewable energy are encouraged. The student will gain exposure to Urban Integrated Field Studies, atmospheric dynamic measurements/modeling, and solar power technology.

Supervisory Responsibilities:

Wholistic student support which includes workload management, professional development, and effective communication strategies. Training in climate science basics with an engineering framework and understanding of research best practices. Provide transportation, as needed

Duties/Responsibilities: Student is to install and maintain field research equipment & data analysis.

- Air quality monitors, weather stations, and Light Detection and Ranging (LiDAR)
- Assist in routine weather balloon launches.
- Use software to analyze collected data (ex. meteorological or solar panel performance).
- Support Citizen Scientist Education programs and community engagement events.
- Participate in team meetings and problem-solving activities.

Preferred Skill/Abilities:

- Able to work across majors
- Organized and attentive to details
- Skilled in Microsoft Office Suite, Arduino coding languages, andAutoCAD Simulink, Pspice, related software tools.

Education and Experience:

- Undergraduate student in Electrical Eng., Physics, Computer Science, and Engineering Physics
- An upper-level student haven taking basic course like Circuitry/Semiconductor 101

Physical Requirements:

- Able to participate in outside environments (ex. gardens or urban farms)
- Must be able to lift heavy objects (approx. 10lbs)

Stipend for the benefit of the trainee:

- 20 hours a week, including community events
- $16/hr

APPLY NOW!