



Student Research Grant Application

The Groundwork Hudson Valley is looking for fellow scientists who will be paid to investigate various aspects of our Science Barge environmental center fully powered by solar, wind, and biodiesel, floating on the Hudson River in downtown Yonkers, and housing a sustainable urban farm. Three subject areas will be considered: **Economic, Environmental, and Social Sustainability**. The focus of the research topic can be on any one or more of the 3 pillars of sustainability but it's vital that conclusions make connections with the other pillars. While it is often thought that we are removed from the environment, that it resides somewhere far off, this could not be further from the truth. Our goal is to build a body of scientific information about the health of our local environment, and its socio-economic impact on everyday life. As a means of achieving this goal, we are offering seven paid fellowships. These are offered to students interested in studying the lower Westchester environment for research projects conducted in 2023. Interested scientists must consider the following:

1. Research must be focused on sustainability and environmental issues related to food production, plant cultivation, renewable power generation on a boat/barge, river water quality, or other environmentally related topics
2. Research must adhere to all New York State safety guidelines, including regulations that restrict the use of harmful substances and practices to all organisms.
3. Research should aim to identify and address any potential negative impacts on the environment and the local community.
4. Research should explore innovative and sustainable methods for food production and plant cultivation on a boat/barge, such as D.I.Y. hydroponics or drought-resistant growing systems for an urban environment; alternative forms of energy production such as solar, wind, or biodiesel power; or water quality.
5. Research should consider the economic viability and social impact of the proposed methods.
6. Research should consider the scalability and potential for replication in other locations.
7. Research must be conducted and completed between May and October of 2023.
8. Commitment is a minimum of 8 hours/month which can be done on weekends or after school.

The research stipend is **\$15 per hour**.

Eligibility:

1. Researchers must be a high school student in Yonkers, preferably 10th or 11th grade.
2. Research must be conducted at the Science Barge located in Downtown Yonkers, NY

Application instructions:

Please follow the following guidelines when applying. Format must be in Microsoft Word (or similar) and adjust space accordingly, preserve the section titles but delete the directions in the parenthesis. The typeface should be TNR 12 point, double spaced. Margins should be 1" on all sides (except the cover sheet which you can feel free to be creative with). Each page should have the applicant's name and date submitted in the header.

Submit a brief (no more than 2 pages) research proposal outlining the following:

1. Research question
2. Methodology
3. Expected outcomes
4. Relevance to sustainability challenges in Lower Hudson Valley
5. Include a CV/Resume

Selection process:

1. Proposals will be reviewed by Groundwork Hudson Valley's Education Department
2. Applicants will be notified of the decision within 2 weeks of the submission deadline.
3. Submission deadline: **March 31st, 2023**

We look forward to receiving your proposal and supporting your research efforts!

Apply Here!