



Student Application: 2022 Summer post-graduate, paid internship

This opportunity is part of the National Science Foundation (NSF) Advanced Technological Education (ATE) grant: Building a Virtual Geospatial Program at a Community College to meet Workforce Needs

General Information:

Two students who are in their final semester of the GIST program (or recently graduated) will be selected for this competitive, paid, work-based learning and internship experience. The project will occur this summer, **sometime between June 1st to August 8th, 2022.**

The grant will provide the student with a stipend upon successful completion of this virtual internship. These will be short-term programs (~20 days of service, 120 hours total, for \$1,980). While not a guarantee, this internship has the potential to evolve into a part-time or full-time paid position.

To be considered, students must fill out the application below between **May 5th and May 13th, 2022.**

Students will be selected based on their GIST portfolio, progress in Spatial Analysis and their Capstone course, outside classroom experience (e.g., mapping club, etc.), GIS course grades, attendance, and a letter of recommendation. Two students will be selected in the third week of May.

Applications must be emailed to Professor Jonathon Little (jlittle@monroecc.edu) and Wayne Howard (whoward11@monroecc.edu), no later than Friday, May 13th at 12 PM.

Descriptions of the two projects under consideration:

Project A Genesee Land Trust –

Genesee Land Trust preserves and protects natural lands and waterways that enhance the quality of life in the greater Rochester region. The Land Trust is responsible for over 6,500 acres of conservation land including 13 nature preserves that are open to the public to enjoy. In partnership with Monroe Community College's GIST program, the Land Trust seeks an intern to create new, engaging, and accessible trail maps for public conservation properties, update and rework the 'Hit the Trail Passport' in partnership with Wegmans, and to assist the organization's transition to ArcGIS Pro and Landscape Conservation Lands Database. The position will primarily be remote but will include the option of field visits to public conservation lands. The Wegmans Passport program involves pocket sized passports that the public can pick-up from Wegmans and bring out to parks and nature preserves where they are tasked with finding a post and completing an etching, which serves as the passport 'stamp'. The Land Trust passport is in need of updated maps, descriptions, and ground-truthing. A few photos attached and more about the program here: <https://www.wegmans.com/health-nutrition/eat-well-live-well/passport-to-family-wellness/>



Project B
Bureau of Environmental and Occupational Epidemiology,
New York State Dept. of Health

The NYSDOH/ UAlbany will host a summer intern through the Monroe Community College GIS program. The intern will map the normalized vegetation index (NDVI) of New York state between the years 2017-2019 under the supervision of NYSDPH staff. This project will be used to inform an assessment of harmful algae bloom (HABs) in New York State that NYSDOH is conducting in collaboration with NYS Department of Environmental Conservation and the US Environmental Protection Agency. The project is using EPA’s CyAN satellite derived products to assess HABs in water bodies that are not monitored routinely. The student will also assist in using NDVI metrics derived from the internship to model HABs events along with lake characteristics and other data sources. Dana Keil will plan to meet weekly with the student to go over the progress of their project.

If you are selected, you are required to participate in the above activities as well as mandatory meetings, and anything else deemed necessary by the project director. If you are interested and believe that you can commit to the above mentioned, please submit the student application below.

More Information about our program:

NSF ATE Meeting Workforce Needs through Virtual GIST: https://atecentral.net/msites/MCC_GIST

Get the GIST Certificate Video: https://ensemble.itec.suny.edu/Watch/MCC_GetTheGIST

GIST Certificate: <https://www.monroecc.edu/academics/majors-programs/stem/geospatial-information-science-and-technology/>

Instructions: Please complete the student application below.

Section I: Academic and Eligibility

Full Name: _____

M#: _____ **Date of application:** _____

Your signature indicates that you will be completing the requirements for graduation this semester and that you have filed for graduation.

Section 2: General Questions

1) **Which project are you interested in applying for?**

Project A – Genesee Land Trust

Project B – NYS Department of Health

Both – Project A and B

2) **If you are employed, are you able make the time commitment and meet with the host and others sometime during the workday?**

Yes No



3) Are you willing to work virtually?

Yes No

4) To select applicants, a phone interview may be required. Are you willing to participate in a Zoom or phone interview?

Yes No

5) Did you submit a letter of support from a professor or workplace supervisor to jlittle@monroecc.edu and whoward11@monroecc.edu ?

Yes No

Section 3: Short Essay Section

6) Describe your interest in the internship project you checked above (200 words or less).

7) Describe your interest in mapping and conducting fieldwork (200 words or less).

8) Describe why you are the best candidate for this internship (choose one). (200 words or less)

Section 4: Your Signature

- I have read the general information and requirements.
- I have answered all the general questions.
- I have written the short essays for question 1, 2, and 3 in section 3.
- I have included one letter of support from:

Professor **Or**

Workplace Supervisor

Your Name (printed): _____

Your Signature: _____

Date: _____

SUBMISSION:

Please email the completed application and supporting documents by **Friday, May 13, 2022 at 12:00 PM**. Email all documents to jlittle@monroecc.edu and whoward11@monroecc.edu.