



## Student Application: 2021 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 will be selected for this competitive, paid, work-based learning and internship experience. The project will occur this summer, **sometime between June 1<sup>st</sup> to August 15<sup>th</sup>, 2021.**

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 **April 6<sup>th</sup> and April 20<sup>th</sup>, 2021.**

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

Applications must be emailed to Professor Jonathon Little (jlittle@monroecc.edu ) and Wayne Howard (whoward11@monroecc.edu), no later than Tuesday, April 20<sup>th</sup> at 5:00 PM.

#### Descriptions of the two projects under consideration:

##### **Project A Water for South Sudan Summer Mapping Internship**

Water for South Sudan (WFSS) is supported by thousands of teachers and students across the globe, all creative, driven, and determined to provide clean water in South Sudan.

Two-part map project:

1. First piece: WFSS would like to connect these wonderful teachers to each other. We'd like to create a map pinpointing the locations and names of all the schools that have fundraised for us.
2. Second piece: (only accessible with secure access) Each pinpoint would list the school name, teacher contact information, photos (if applicable), # of years fundraising for WFSS, amount raised—all of which is information that would only be available to people with secure access.

The second piece to this project will allow teachers around the world to connect for support, mentoring, sharing of ideas, etc.



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

Our project is a collaboration with the division of water supply, and has two major focuses. The first aspect is to compare historical algal bloom data from both chemical tests collected by the DEC, and citizen science reports, with remotely sensed reflectance data related to HABS (harmful algal blooms) in the state of New York. The second aspect is to analyze the locations of CAFOS (Centralized Animal Feeding Operations), karst geography, private wells, and flood zones in relation to water contamination the state of New York. Beyond work involving remote sensing and geoprocessing, there are a variety of GIS goals related to the development of web portals, and python applications. We are working closely with partners at the DEC, and EPA, CDC, and Water Supply, so the network building opportunity is also advantageous.

**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](https://atecentral.net/msites/MCC_GIST)

Get the GIST Certificate Video: [https://ensemble.itec.suny.edu/Watch/MCC\\_GetTheGIST](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 – Water for South Sudan

Project B – NYS Department of Health

Both –

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 phone interview?

Yes  No

5) Did you submit a letter of support from a professor or workplace supervisor to [jlittle@monroecc.edu](mailto:jlittle@monroecc.edu) and [whoward11@monroecc.edu](mailto: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

Workplace Supervisor

Your Name (printed): \_\_\_\_\_

Your Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**SUBMISSION:**

Please email the completed application and supporting documents by **Tuesday, April 20, 2021 at 5:00 PM**. Email all documents to [jlittle@monroecc.edu](mailto:jlittle@monroecc.edu) and [whoward11@monroecc.edu](mailto:whoward11@monroecc.edu).