



MAPPING AIR QUALITY IN NEW YORK CITY

**Geospatial Technology Workshop for High School Students
with stipends* [Funded by the National Science Foundation]**

***Stipends are only awarded to participants who attend all the (10) workshops and
successfully complete all assignments.**

When: Every Saturday from 6th October to 8th December 2018, 1:00pm-4:00pm.

Where: Geospatial Computing Center, Meister Hall 330
Bronx Community College. 2155 University Ave, Bronx, New York-10453

For Additional information contact - Dr. Sunil Bhaskaran
[Director of BCC Geospatial Center]
Email: Sunil.Bhaskaran@bcc.cuny.edu
Inquiries by phone may be made by phone to 718-289-5233

BCC Geospatial Center of the CUNY CREST – www.bcc.cuny.edu/geospatial/

WORKSHOP HIGHLIGHTS

The workshops will provide selected participants with an opportunity to learn about Geospatial Technology and its applications. Carefully designed sessions will give them an opportunity to learn about spatial technology and get hands-on training at the Geospatial Computing Center. Interactions with experts from the Industry will inform them about exciting courses and careers in geospatial industry. The workshop is designed to enthuse and inform the participants about spatial concepts, spatial thinking and the world of Geospatial Technology. It will provide a rare opportunity for them to learn an emerging technology and earn a handsome stipend. Participants will present a project – ‘**Mapping Air Quality**’ at the end of the workshop.

BRIEF DESCRIPTION OF WORKSHOP PROGRAM

October 6, 2018	Introduction to geospatial technology, spatial concepts, spatial thinking. Introduction to air quality.	Mode: Presentation, Video, Hands-on exercise
October 13, 2018	Project design – Project objectives, data acquisition plan, open source data, data formatting, data integration.	Mode: Presentation, Video, Hands-on exercise
October 20, 2018	Visualizing and mapping the land cover from high resolution satellite data – creating an accurate base map, mapping different target objects for mapping air quality.	Mode: Presentation, Video, Hands-on exercise
October 27, 2018	Visualizing and mapping the land cover from high resolution satellite data – creating an accurate base map, mapping different target objects for mapping air quality.	Mode: Presentation, Video, Hands-on exercise
November 3, 2018	Deriving intelligent data for assessing air quality-spatial analyses – Part I	Mode: Presentation, Video, Hands-on exercise
November 10, 2018	Deriving intelligent data for assessing air quality spatial analyses – Part II	Mode: Presentation, Video, Hands-on exercise
November 17, 2018	Story telling - designing story maps, Introduction to Python programming (Optional)	Mode: Presentation, Video, Hands-on exercise
November 24, 2018	Expert interactions – demonstration by guest speaker/s from the Industry	Mode: Presentation, Video, Hands-on exercise
December 1, 2018	Presenting results and accomplishments - Project presentation by participants	Mode: Presentation
December 8, 2018	Presenting results and accomplishments - project presentation by participants and closing Ceremony	Mode: Presentation

Application Form

Fall 2018 GEOSPATIAL WORKSHOP HIGH SCHOOL APPLICATION

1. **Print Name** _____
LAST FIRST M.I.

2. **OSIS #** _____

3. **Age:** _____ **Sex:** Female Male **Race/Ethnicity:** _____

4. **Name of High School:** _____

Address of High School: _____

Grade Level: _____ **GPA:** _____

5. **Current Home Address:**

APT#

CITY

STATE

ZIP CODE

6. **Contact Information**

_(_____)_____
MOBILE

EMAIL

7. **Emergency Contact**

NAME

EMAIL

_(_____)_____
PHONE NUMBER

NAME

EMAIL

_(_____)_____
PHONE NUMBER

8. Questionnaire (Please answer questions in the form)

How do maps help us in our daily lives? Give one example and explain briefly.

Give an example of how you used computers in a school project?

Which careers interest you the most?

Can maps help in managing emergencies? Explain briefly by giving an example.

- 9. Comment by parents/guardian:** This technology workshop program is aligned to my daughter/son's specific interest and is in line with her/his broader career pursuits.

Signature of the Parent/guardian_____

Print Name_____

Contact phone #_____

- 10. Reference Information (Provide a name, email id and phone number of a teacher who knows you very well and can send us a recommendation letter describing your character and discipline in learning)**

Name: _____

Email ID: _____

Phone number: _____ Work/Office number: _____

Submit the completed application form (as a scanned attachment) to Dr. Sunil Bhaskaran the director of the program on or before the **1st October, 2018**. His email id is **Sunil.Bhaskaran@bcc.cuny.edu**

Note: Only those applicants who are shortlisted will be contacted. Unless you get a written email confirmation you must not assume you are selected for the workshop.