FRESHMAN YEAR TO
GEOSCIENCE CAREER
NSF IUSE-GEOPATHS AT CUNY

Why should I consider a Geoscience career?
Why should I prepare for it at Queens?
What will GEOPATHS do for me?
WHY SHOULD I CONSIDER A CAREER IN GEOSCIENCE?
THE UNITED STATES NEEDS GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS!
NOT ENOUGH SCIENCE MAJORS ARE CHOOSING GEOSCIENCE
2015 GEOSCIENCE GRADUATES BEGAN CAREERS IN

Queens College alumni also work in:
- Insurance
- Environmental & Resource Law
- Journalism
- Forensic materials science
- Mining and prospecting
- Architecture, Urban Planning

NYC DEP, Sanitation, MTA, Environmental Remediation
NYS: DEC, Port Authority
US: EPA, NOAA, Army Corps of Engineers, State Department
etc.
QUEENS COLLEGE GEOSCIENCE ALUMNI INCLUDE

- U.S. Department of Energy: Deputy Undersecretary for climate negotiations
- Bank of Montreal: Mining investment analyst
- AIG Insurance: Vice-President for Special Environmental Claims (supervises 26 geoscientists including one hired this year)
- President & CEO Highbridge Materials testing
- CEOs: Roux Associates (and 3 other alumni/ae); Charles Rich Associates; Preferred Environmental Services; Kaaterskill Prospecting
- Exxon-Mobil: Vice-President for Exploration; Senior exploration geologists
- Chevron: Senior geologist
- Distinguished Teaching Professor, Youngstown State University
- Port Authority of New York and New Jersey: Senior geologist
- Professor, Imperial College, London
- Hong Kong urban planning: senior geologist
- U.S. Geological Survey: California earthquake hazard director; Water Resources Division-- Geophysicist, Coram, NY, Hydrogeologist, Princeton, NJ, Columbus, OH
- Quality control supervisor for the largest clay mining operation east of the Mississippi
Your chances of getting a rewarding job are VERY good

Geoscience sector growth rate is greater than for all other STEM occupations
AGI estimates that there will be **139,000** geoscience job openings in 2022 that cannot be filled at the rate that American universities are graduating geoscientists.
AGI surveys show that geoscientists earn more than other STEM occupations.
WHY SHOULD I TRANSFER TO QUEENS COLLEGE AFTER I FINISH MY ASSOCIATE’S DEGREE?
WHY QUEENS COLLEGE?

1. The minimum training for entry level professional geoscience positions is the Bachelors degree (B.S. or B.A.).

2. More preferred is the Masters degree (M.S. or M.A.)

3. Queens College offers both and, through the GEOPATHS program guarantees admission to our M.S. program for all majors who maintain at least 3.00 GPA

4. With all due modesty, we are the best undergraduate and Masters program in the NYC metropolitan area, including Columbia & NYU.

5. Geoscience articulation agreements with LaGuardia and Queensboroough community colleges makes the transfer simple – and even more so with GEOPATHS
Just a few miles west of here,

- **Our 15 geology and environmental science faculty members** offer training and research opportunities in a wide range of areas.

- **Like to travel?** Our faculty (and students) have worked on all continents (including Antarctica), collected rocks from the ocean floor (and drilled below it), and even worked with Moon samples.

- **All of our faculty invite students to work with them on research projects** that make a difference in the local, national, and global environment.

- **You will get personal attention:** our advanced and graduate courses are usually small (typically fewer than 20)
WHO ARE WE AND WHAT DO WE DO?

Jeffrey Bird: soil ecology and geochemistry
Bill Blanford: Environ. remediation
Nick Coch: coastal & environmental geology
Tim Eaton: surface and groundwater hydrology
Gary Hemming: Envir. geochemistry

George Hendrey: Climate change
Marc-Antoine Longpré: Modern volcanology
Allan Ludman: Appalachian tectonics
Jeffrey Marsh: Petrology, tectonics
Cecilia McHugh: Oceanography

Greg O’Mullan: Envir. Microbiology
Steve Pekar: Stratigraphy; paleoclimate
Gillian Stewart: Marine Biogeochemistry
Chuixiang Yi (Tree): Microclimate modeling
Yan Zheng: Geochemistry
HOW WILL THE NSF-GEOPATHS PROJECT HELP ME?
THE NEWEST REASON: GEOPATHS

**What is Geopaths?** Recognizing that the lack of sufficient geoscientists is a serious national problem, *GEOPATHS* is a National Science Foundation initiative to increase the number and diversity of Environmental Science and Geology majors who earn a Bachelor’s degree and compete successfully for prestigious positions in graduate school and Geoscience employment.

*Freshman Year to Geoscience Career* is a collaborative effort among Queens College and Queensborough and LaGuardia community colleges designed to reach these goals. It is the only GEOPATHS-funded project in New York State.

We identified problems our students have faced in completing Geoscience Associates and Bachelors degrees and designed solutions to help them complete their majors and compete successfully for graduate school or employment positions.
THAT SOUNDS GOOD, BUT WHAT WILL GEOPATHS DO FOR ME?

Starting next semester, GEOPATHS benefits include:

- A 3-campus Geoscience community with academic and social events so that you become familiar with the students and faculty from the other two campuses. *Early next semester, a Geoscience poster symposium at QC showcasing student and faculty research + tours of campus and our labs*

- Research opportunities that you can start here and continue after transferring to Queens.

- Coordinated advising (like this meeting where faculty from all three campuses participate)

- Peer and faculty advising to make your transfer seamless – indeed, QCC and LAG students tend to finish QC degrees faster (and often better) than “home-grown” QC students!

- Free tutoring in our students’ least favorite course: Calculus; *and*
Paid service learning opportunities: earn money on campus doing something that will build your résumé while helping you enhance your understanding of basic concepts: assist in introductory EnSci and Geol laboratories; tutor; work as research assistants for faculty and graduate students.

Career counseling from the moment you declare at Geoscience major at QCC, LAG, or QC. We will help you

✓ choose your best post-graduation option (Work? Graduate school?)
✓ learn how to search for the best job or graduate school
✓ build the strongest GPA
✓ build a résumé that will let you compete with graduates of any college or university
✓ Write that resume
✓ sharpen the interview skills that will make employers or graduate schools want you.
FOR MORE INFORMATION, CONTACT

At Queensborough: Dr. Monica Trujillo (MTrujillo@qcc.cuny.edu)

At LaGuardia: Dr. Holly Porter-Morgan: (hporter-morgan@lagcc.cuny.edu)

At Queens: Dr. Allan Ludman (allan.Ludman@qc.cuny.edu)

And explore the GEOPATHS website at: www.qc.cuny.edu/Geopaths

It’s still in development but there’s a lot of useful information, including a short (soon to grow) videolibrary of interviews with different kinds of geoscientist and additional information about job potential from the American Geosciences Institute.