

## **Lamont Summer Intern Program for Columbia and Barnard Students (LSIPCB)**

*Sponsored by the Climate School, Lamont-Doherty Earth Observatory, Barnard College, The Climate Center of LDEO, and the Department of Earth and Environmental Sciences at Columbia University.*

Program Dates: **May 27th-August 6th, 2026**

The Summer Intern Program for Columbia and Barnard students offers the chance to experience scientific research as an undergraduate. **The program is open to all Columbia College, Columbia Engineering, Columbia General Studies, and Barnard students** who have completed their junior or sophomore year in college with majors (or anticipated majors) in earth science, environmental science, sustainable development, chemistry, biology, physics, mathematics, engineering or political science. **Graduating seniors are not eligible.** Applicants should have an interest in conducting research in the Earth, atmospheric, or ocean sciences. Completion of at least two courses in Earth, atmospheric or ocean sciences is desirable. All students are preferred to have at least one year of calculus (high school or college) and/or good grades in college level mathematics. Students undertaking research in geochemistry and chemical oceanography are required to have at least two semesters of college-level chemistry. Students undertaking research in marine biology should have at least two semesters of college-level biology. Students undertaking research in geophysics should have at least three semesters of college-level physics.

The following members of the LDEO or Climate School staff will act as research mentors:

**Benjamin Bostick, Magdaly Sevilla.** Expertise: **Environmental Geochemistry, Public Health.** Research Project: How Does the Chemistry of Rice Paddy Pore Water Influence Human Health?

**Muhammad Azhar Ehsan.** Expertise: **Subseasonal-to-Seasonal Climate Variability and Change, Practical Application of Climate Forecasts.** Research Project: How Do Weather Extremes and Upper-Air Patterns Connect with Billion-Dollar Disasters?

**Joachim Goes.** Expertise: **Biological Oceanography.** Research Project: What Are the Metabolic Secrets of a Bloom-Forming Mixotroph, *Noctiluca Scintillans*?

**Rebecca Gustine, Joerg Schaefer.** Expertise: **Water Resources, Hydroclimatology, Food and Water Security, Modeling, Remote Sensing.** Research Project: What are the Hydrologic Thresholds that Drive Human Migration from Peru's High Mountain Communities?

**Aviva Intveld, Gisela Winckler.** Expertise: **Paleoclimate, Oceanography, Aerosols, Dust.** Research Project: What Do Labrador Sea Aerosols Tell Us About the Extent and Impact of the 2025 Canadian Wildfires?

**Jerry McManus.** Expertise: **Paleoceanography, Sedimentology, Geochemistry, Micropaleontology.** Research Project: Did Icebergs and Variations in Deep-Ocean Circulation Cause the Most Dramatic and Abrupt Climate Changes in the Past?

**Daniel Westervelt.** Expertise: **Atmospheric Chemistry and Climate.** Research Project: How Does Vehicle Type and Traffic Quantity Impact Air Pollution Levels and Sources on an Urban Highway?

**Yutian Wu.** Expertise: **Climate Dynamics, Climate Modeling.** Research Project: How Well Can We Analyze and Visualize Summertime Pollution Transport?

**Xiaoshi Xing, Jung-A Lim.** Expertise: **Environmental Science, Information Science, Big Data.** Research Project: Enhancing Global Urban Air Quality Analysis Using High-Resolution Time-Series Grids of Population Weighted, PM2.5 Data.

### **Program Information:**

**STIPEND:** Students will receive a stipend of \$7000 for this 10-week program. Students who have their own living arrangements will have \$1000 added to their stipend.

**HOUSING and TRAVEL BENEFITS:** The student will receive free housing in a college dorm room. Students will also receive free bus transportation between the college campus and Lamont. Students who are traveling to New York for this internship from more than 200 miles away will be reimbursed for a round-trip supersaver fare\*.

**APPLICATION DEADLINE:** Application form must be submitted by **February 18th, 2026.**

**There is an online application form (ETAP). Go to our webpage or it is posted at:**

<https://etap.nsf.gov/award/7344/opportunity/11768>

### **The online application form asks for the following files:**

- Resume with description of computer skills (for example, excel, word, other?).
- A statement of interest. This statement can include a description of a particular research project that the student wishes to undertake or it can be a more general statement of the three research projects that interest the student most. We recognize that students with no prior research experience may have difficulty formulating a research project and we will not penalize students who do not submit a detailed project description. The goal of our program is to teach students about the research process and we encourage students with

no prior research experience to apply. The student should also include a statement of the characteristics of a good scientist and the availability of undergraduate research opportunities at their home institution.

- Two letters of recommendation from your professors. Additional letters are not required or desired.
- Scanned transcript(s). Transcripts need not be official but must be legible and in English. If you have more than one undergraduate transcript, combine them into a single document for upload.
- Also, see the file on our webpage, “Tips for applying on ETAP.”

**If transcripts are not available in time to append to the online application form, send scanned transcript(s) by email to:**

**Laisa Sevilla  
Summer Internship Program  
Lamont-Doherty Earth Observatory  
Palisades, New York 10964  
Email: [lsevilla@ldeo.columbia.edu](mailto:lsevilla@ldeo.columbia.edu)**

Columbia and Barnard students who also want their application considered for the research projects in the Lamont Summer intern program sponsored by NSF including the ocean drilling program should select 3 research projects each for both programs on the online ETAP application form. It is **not** necessary to send separate applications and transcripts to both programs.

For more information about the program, please visit the following webpage:

<https://lamont.columbia.edu/education-outreach/student-summer-opportunities-intern-programs>

Decisions for all but the waiting list will be made on or before April 1st, 2026. Every year the research projects and advisors change. Please look for the yearly posting of new projects in mid-January.

\* \$750 cap on travel reimbursement.