

RESEARCH EXPERIENCE FOR UNDERGRADUATES, BIOLOGY AND PHYSICAL SCIENCES

General Information

Program Session: Tuesday, May 30 to Friday, August 4, 2023

[Please Note: Due to the continuing challenges created by COVID-19, we may need to modify this program for remote delivery]

Biology REU Program

The Research Experiences for Undergraduates (REU) program in Systematics and Evolutionary Biology is funded by the National Science Foundation and has been in place for over 30 years. Our program brings approximately 12 students to the American Museum of Natural History in New York City each summer for a ten-week experience working with our curators, faculty, and post-doctoral fellows. Research projects span diverse fields of comparative biology including paleontology, genomics, population biology, conservation biology and phylogenetics and taxonomy. Students have access to the Museum's immense natural history collections as well as state-of-the-art equipment for advanced imaging (CT scanner, SEM, TEM) and genomics (Sanger and pyrosequencing platforms). In addition to conducting original research projects throughout the summer, students also participate in formal instruction in systematics and evolution and receive training in ethics, networking, communication and other career-building skills. At the conclusion of the internships, students deliver oral presentations of their work and prepare publication quality research papers.

Physical Sciences REU Program

The Research Experiences for Undergraduates (REU) program in Physical Sciences is funded by the U.S. National Science Foundation and has been in place for over 30 years. Our program brings approximately 8 students to the American Museum of Natural History in New York City each summer for a ten-week experience conducting research with our curators, faculty, and postdoctoral fellows in astronomy and in earth and planetary science. In addition to conducting original research projects throughout the summer, students receive training in ethics, networking, communication and other career-building skills. At the conclusion of the internships, students deliver oral presentations of their work and prepare publication quality research papers.

Who Should Apply

All students in the program must be U.S. citizens, U.S. nationals or permanent residents of the U.S. Students must be entering or continuing in an Associates or Baccalaureate degree program following their summer internship; you must have at least one more semester remaining in college to complete your undergraduate degree after Summer 2023. As part of the National Science Foundation's commitment to broadening participation in STEM fields, we

especially encourage students who come from community colleges, undergraduate-only institutions, and minority-serving institutions to apply.

Funding

Students receive an estimated \$6000 traineeship stipend, as well as per diem costs for housing and meals, relocation expenses, and transportation subsidies. Typically, housing is made available to all REU interns at nearby universities or housing facilities.

Links to Projects

Biology Projects for 2023: <https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/undergraduate-fellowships/reu-biology-program>

Physical Sciences Projects for 2023 (includes Earth and Planetary Sciences and Astrophysics): <https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/undergraduate-fellowships/reu-physical-sciences-program>

NOTE: We expect additional projects to be added to the Physical Sciences REU program in the near future. We encourage interested students to check this site frequently for updates

Deadline to Apply

The online application and all documents must be uploaded to our website by **11:59pm, EST on January 31, 2023**

INSTRUCTIONS

There are 6 parts to the application process; all are required and must be completed by **11:59pm Eastern Time on January 31, 2023**.

1. Personal Background
2. Academic History
3. REU: Application
4. REU: Documents to Upload [*unofficial transcript, optional cv/resume, optional supplemental material*]
5. Signature
6. Review

For assistance with the application process, you may contact admissions-rggs@amnh.org

REU: APPLICATION

Please provide the following information on the REU Application page.

A. REU Application Form

- **Personal Information** (name, preferred email, preferred telephone)

- **Program Selection**
 - Biology or Physical Sciences
- **Are you a U.S. national, or permanent resident of the U.S.?**

B. REU Project Selection

- Please select your **TOP 3 AMNH REU** project titles from the website and insert them in the textboxes below.
 - **Biology Projects for 2023:**<https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/undergraduate-fellowships/reu-biology-program>
 - **Physical Sciences Projects for 2023** (includes Earth and Planetary Sciences and Astrophysics): <https://www.amnh.org/research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/undergraduate-fellowships/reu-physical-sciences-program>

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C. Research Experience, Goals, and Coursework

- Please answer the following questions in the spaces provided (200-word limit for each question)
 1. Current Academic Information (list your current institution, expected degree, major, minor[s])
 2. Expected Date of Graduation (please note that you must have at least one more term remaining in your degree after completion of this REU program)
 3. Please list any prior REU experience (program name, institution, location, and year)
 4. Why would you like to do research at AMNH this summer?
 5. What attracted you to your top choice project?
 6. What attracted you to your alternative project choices?
 7. What are your career goals?
 8. What other research experiences have you had?
 9. Of the Biology/Physical Sciences courses you have taken, which have been your favorite and why?
 10. What other experience do you have that might be relevant for research?(e.g., computer programming, scientific illustration, other languages)
 12. What other types of experiences do you hope to have during the summer program?
 13. Please feel free to add any other relevant information here.
 14. Coursework:(Provide a list of relevant coursework to your selected project[s] here)

D. References

- Please give us the name, title, institution, and email address of two references who we may contact if we select your application as one of the finalists.

You do NOT need to provide reference letters now. We will ONLY contact these individuals if you are a finalist.

REU: DOCUMENTS TO UPLOAD

All documents should be submitted in PDF or word processing format. Other options—not preferred unless necessary to preserve information or functionality—include presentations (.ppt, .pptx, and .wdp) and image formats (.bmp, .gif, .jpg, .jpeg, .png, .tif, and .tiff)

Unofficial Transcript (Required)

- Upload a copy of your transcript. This may be an unofficial transcript downloaded from your school's website. You do not need to send us an official transcript by mail.

Curriculum Vitae/Resume (Optional, Highly Encouraged)

Supplemental Material (Optional)

- You may submit any kind of additional document that you think will support your application (e.g., publications)
- You may not submit a letter of recommendation
- There is a limit of 1 additional document maximum