

STEM Summer 2019 Internships at Gallaudet University



- **Accessible Communication and Information Technology (AICT)** with Dr. Raja Kushalnagar (PI) [raja.kushalnagar@gallaudet.edu] and Dr. Christian Vogler (co-PI). [May 28-Aug. 2, 2019]. Interns will develop and evaluate accessible solutions for communication and technology, such as captioned and video phones, closed captions and interpreting for internet television and accessibility in augmented or virtual reality settings.
- **Aquatic Ecology** with Drs. Caroline Solomon (PI) [caroline.solomon@gallaudet.edu] and Gaurav Arora. [May 20-July 26, 2019]. Interns will be investigating changes in nutrient dynamics and algal and bacterial biodiversity as result of the new Anacostia River Tunnel going on-line in March 2018.
- **Nanotechnology** with Dr. Paul Sabila [paul.sabila@gallaudet.edu]. [June 3-Aug. 9, 2019]. Only for Gallaudet Students. Application Deadline: February 28, 2019. Interns will work at Gallaudet University, Howard University, Harvard University and MIT to synthesize and characterize nanomaterials from molybdenum disulfide (MoS_2) and bismuth telluride (Bi_2Te_3). In addition to the application form on the second page, candidates must also complete the CIQM Summer School application through Harvard University. Gallaudet students interested in internships at Harvard and MIT, the deadline is Feb. 1, 2019. <http://ciqm.harvard.edu/summer-school.html>
- **Organic Chemistry** with Dr. Paul Sabila [paul.sabila@gallaudet.edu]. [June 3-Aug. 9, 2019]. Only for Gallaudet Students. Interns will work at Gallaudet University and at Howard University.
- **Bioinformatics** with Dr. Gaurav Arora [gaurav.arora@gallaudet.edu]. [May 28-Aug. 2, 2019]. Interns will use programming and bioinformatics tools. The project will analyze foreign genes in microbial genomes from the Human Microbiome project. The goal of this project is to understand the purpose and function of these genes in bacterial genomes.
- **Drug Design** with Dr. Adebawale Ogunjirin [Adebawale.Ogunjirin@gallaudet.edu] will offer internship experience in drug design from May 20 - July 26, 2019 at James Madison University (JMU), Harrisonburg, Virginia. Intern will learn to design, synthesize, isolate, and characterized new drug molecules using rational and structure-based approach. Intern will gain hand-on experience by using organic synthesis laboratory tools, and learn to interpret experimental data from an array of analytical instruments.

Gallaudet University is located nearby hundreds of historic Washington, DC destinations including the US Capitol, the Library of Congress, the Washington Monument, and the National Mall, where the Smithsonian Institution museums are located. The underground Metrorail system makes travel between hotspots quick and easy. Washington, DC has a vibrant culture and nightlife popular with people of all ages and interests. These internships are possible only through the generous support of the NASA/DC Space Grant Consortium, the National Science Foundation, the Beverley Taylor Sorenson Student Fellowship, the Gordon H. and Dorothy M. Brown Fund for Environmental Science.

APPLICATION FORM • SUMMER 2019 INTERNSHIPS

INSTRUCTIONS

If you have any questions about any of these projects, please email the faculty member responsible for that project. We want you to ask questions, and we like talking about our projects.

GENERAL INFORMATION:

Name:..... Email:.....
Mailing Address:.....

Citizenship: US Citizen Permanent Resident Other
Current Class: Freshman Sophomore Junior
Anticipated Graduation Date: _____ Current College: _____

PROJECT PREFERENCES

You can either email your completed application to paul.sabila@gallaudet.edu or mail it to: Dr. Paul Sabila, Center for Science and Technology Research, Department of Science, Technology, & Mathematics. N446B Hall Memorial Building, Gallaudet University • 800 Florida Avenue, N.E. • Washington DC 20002

Project Preferences

Rank these projects in order of your preference. Put “1” in the box for the project you most want to be involved with, “2” for your second choice, and so forth. Leave blank any projects that you are not interested in.

- **Accessible Communication and Information Technology (AICT)** with Dr. Raja Kushalnagar (PI), raja.kushalnagar@gallaudet.edu and Dr. Christian Vogler (Co-PI). Dates: May 28-Aug. 3, 2019.
- **Aquatic Ecology** with Dr. Caroline Solomon caroline.solomon@gallaudet.edu. Dates: May 20-July 26, 2019.
- **Nanotechnology, Organic Chemistry** with Dr. Paul Sabila, paul.sabila@gallaudet.edu. Dates: June 3-August 9, 2019. Contact Dr. Sabila if interested or go directly to the online application at <https://harvard-seas.embark.com/apply/seas>. Application deadline is Feb. 1, 2019. For those interested in internships at Harvard and MIT, the deadline is Feb. 1, 2019.
- **Bioinformatics** with Dr. Gaurav Arora, gaurav.arora@gallaudet.edu. Dates: May 28-Aug. 3, 2019. Funding only available for Gallaudet students. Non-Gallaudet students can apply for a fellowship to receive a stipend: American Society for Microbiology’s undergraduate research fellowship [<http://www.asm.org/index.php/undergraduate-research-fellowship>] deadline February 15. Sigma Xi Grant-in-Aid Research (GIAR) [<https://www.sigmaxi.org/news/article/2016/12/15/call-for-grant-applications>] deadline March 15. Pathways to Science [<http://www.pathwaystoscience.org/undergrads.aspx>]
- **Drug Design** with Dr. Adebawale Ogunjirin, Adebawale.Ogunjirin@gallaudet.edu. Dates: May 20-July 26, 2019. Internship in drug design at James Madison University (JMU).

SUPPORTING DOCUMENTS

1. Transcript(s)
2. One-page statement of interest. Explain: (1) why this internship project(s) are a good fit for you; and (2) what you can contribute to the project(s).
3. One-page résumé. Include: (1) relevant courses and honors; and (2) relevant work experience.
4. Two letters of recommendation. Attach letters of recommendation to this application, or email letters as PDF documents on an official letterhead.