

Teaching and Outreach Opportunities for Postdocs and Graduate Students

IRACDA Program

IRACDA combines a traditional mentored postdoctoral research experience with an opportunity to develop teaching skills through mentored assignments at a minority-serving institution. The program is expected to facilitate the progress of postdoctoral candidates toward research and teaching careers in academia. Other goals are to provide a resource to motivate the next generation of scientists at minority-serving institutions and to promote linkages between research-intensive institutions and minority-serving institutions that can lead to further collaborations in research and teaching.

<https://www.bcm.edu/education/schools/graduate-school-of-biomedical-sciences/diversity/iracda/programs>

Contact Dr. Gayle Slaughter (gayles@bcm.edu)

Molecular Biology Refresher Course with Bioinformatics

Molecular Biology Refresher Course with Bioinformatics is designed for the sub-specialty fellows starting the laboratory research component of their fellowship. This initiative is taught by postdocs at Baylor College of Medicine and consists of a series of didactic and practical sessions in molecular biology and other laboratory techniques. The course runs August-October.

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Coursera: An Introduction to Evidence-Based Undergraduate STEM Teaching

This 8-week, online course is geared at graduate students and postdocs who are interested in college-level teaching, providing an introduction to effective teaching strategies and giving them the opportunity to design lessons and experiments they can use in the classroom.

<https://www.coursera.org/course/stemteaching>

STEM Education Interest Group

The STEM Education Interest Group is comprised of graduate students and postdocs who are interested in exploring the "science of teaching science." Every month, one volunteer presents a paper describing an area of research in evidence-based teaching practices in undergraduate STEM education (such as active learning, peer instruction, summative vs. formative assessment, learning goals and objectives composition, clicker utilization, etc.). The group then discusses the paper in detail and determines if and how the described practices could be implemented in an undergraduate classroom.

Contact Laramie Lemon (lemon@bcm.edu)

Brain STEM

The BrainSTEM program provides a framework for cultivating mentoring relationships between high school apprentices and undergraduate and graduate students as they work together through an introductory computational neuroscience curriculum. After developing a foundation in mathematics and electrophysiology, the high schoolers build circuits to model neural components under the guidance of Dr. Steven Cox and mentors from Rice University, The University of Texas Health Science Center, and Baylor College of Medicine.

<http://tmcbrainstem.wix.com/brain#!about/cee5>

Contact Brian Lim (brianxchristopherxlim@gmail.com)

DeBakey Cell Lab at the John P. McGovern Museum of Health and Medical Science

Volunteers take on the role as Cell Lab Assistants. Major duties include providing museum visitors with a brief lab and safety orientation, explaining the experiments in detail, providing aid during experiments, and answering any related questions that arise. We also perform traditional laboratory duties (make solutions and media, streak out plates, maintain *Drosophila* cultures, clean and autoclave supplies, etc.) to keep the lab running as smoothly as possible.

http://www.thehealthmuseum.org/ManageDetail/Detail_Default.aspx?contentid=1405&categoryid=420

Contact Laramie Lemon (lemon@bcm.edu)

Saturday Morning Science at BCM

Saturday Morning Science (SMS) and SMS2 are community outreach programs sponsored by the Office of Diversity and Community Outreach, and led by Dr. James Phillips. The programs are aimed to motivate inner city students from the 7th to the 12th grade, to reach their highest potential. The general format of each session is an hour lecture by a renowned physician or scientist followed by an hour in small groups led by a mentor (usually a med or graduate student, but post docs, allied health students and faculty are welcome to volunteer as well) in which the students discuss the lecture, careers in science and medicine as well as information about college. The final session is a quick wrap-up with the speaker. SMS runs approximately 8:30-11:30AM every other Saturday from January through May and SMS2 is one Saturday a month September through December. SMS covers diverse topics while SMS2 is co-sponsored by the Center for Reproductive Medicine so the lectures are all related to that topic.

<https://www.bcm.edu/about-us/diversity/diversity-and-community-outreach/programs/saturday-morning-science>

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