

## PROGRAM ANNOUNCEMENT

# Bioengineering Research and Clinical Summer Immersion at Charleston (BEACH) Summer I/II 2024

#### **DESCRIPTION**

This summer program targets students who are committed to advancing their engineering expertise in graduate schools or health professions after graduation. Hosted by the Clemson-MUSC Bioengineering Program, through hands-on work in research labs and shadowing experiences in clinics at MUSC in Charleston, students will develop a firsthand perspective about the skills necessary to succeed in graduate or health professional schools. The program will be held over 12 weeks (Summer I and Summer II per Clemson 2023-2024 Academic Calendar). For each Summer session, students spend a minimum of 135 hours on activities, including lab research, clinical shadowing, and seminars. On Friday mornings, all participants will meet in the classroom for seminars or discussion panels given by Clemson or MUSC faculty, postdoctoral scientists, and PhD or MD students. Research projects will typically focus on but are not limited to the following topics: orthopedics, biomaterials, bioimaging, and stem cell-based tissue engineering.

### **OBJECTIVES**

- Learn lab skills by working with Bioengineering faculty and their lab members as a team.
- Learn basic biomedical research methods, such as hypothesis-driven research design.
- Develop skills necessary to maintain scientific rigor, such as data recording and maintenance of a lab notebook.
- Communicate results in oral and written formats.
- Gain firsthand exposure to clinical practice.
- Record and reflect upon the shadowing experience from the point of view of applications.

#### **ELIGIBILITY**

Rising juniors and seniors in Bioengineering or any related engineering majors are welcome to apply.

## **COURSE CREDITS**

Participants must be enrolled for credit in BIOE 4910 or BIOE 4910H for eligibility. Students using this program to meet departmental honors requirements (research thesis and required seminar attendance) must enroll in both sessions for a total of six credits. Students who choose BIOE 4910 (non-honor section) can enroll in one or both sessions to get 3 or 6 credits, respectively.

#### FOR APPLICATION

Submit the application form along with a one-page resume by March 20, 2024, 11:59 pm. The application form can be downloaded at <a href="https://cecas.clemson.edu/nfil/CUBEACHApplication.docx">https://cecas.clemson.edu/nfil/CUBEACHApplication.docx</a>. The notification of acceptance will be sent out as early as possible once the application is received, but no later than March 31, 2024.

## FOR MORE INFORMATION, CONTACT:

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