

Undergrad Teacher Application

Application for BMED 4803 STEM CHOA Class

As part of Dr. Lam's NSF CAREER grant an educational K-12 outreach program was created. Specifically, teaching math and science to hospitalized children using their own disease as the motivation and springboards for learning. Undergraduate students from the BME Department at Georgia Tech have created interactive teaching modules following GA educational standards for math and science directed towards in-patient and clinic children with sickle cell disease at CHOA Egleston.

This is a long-term educational outreach program that is dedicated to serving children in the community over time. In order to most effectively train our teachers and best serve the patients in need, we are looking for undergraduates who have taken BMED 1300 and are dedicated to volunteering beyond the first semester. You are only guaranteed to receive BMED special topics-depth elective credit for this class once. Continued participants will have the possibility to receive BMED research credit, at Dr. Lam and Dr. Hardy's discretion.

For the Fall 2014 semester, new participants will have a unique opportunity to create and test new disease teaching modules following GA educational standards with pediatric patients at CHOA-Egleston. Our new disease focus will be diabetes, as well as continue working on Sickle Cell Disease, cancer, and Cystic Fibrosis. You will be using your problem-based learning skills to create these modules. You will be required to attend 3 lab hours to work on the modules either Tuesdays/Thursdays 3-4:30pm or Tuesdays/Thursdays 6-7:30pm, as well as the weekly mandatory lecture, Mondays 4-5pm (4 weekly contact hours total). The lectures will focus on communication, education, and teaching skills for working with school aged children. Additionally, you will attend volunteer training at CHOA-Egleston at the beginning of the Fall 2014 semester and between Fall Break and Thanksgiving Break, you will have the opportunity to shadow one of our teachers and will need to complete 6 shadow hours. In the Spring 2015 semester, you begin working individually with patients using the modules you helped create, approximately 4hrs a week, and attend our every-other week status meeting.

If you are interested in joining our program, please send a **single** PDF document to bmehealthreach@gmail.com with the following information:

1. Your 1-pg resume.
2. Expected graduation date.
3. Semester you took BMED 1300 and what disease you researched in the first problem.
4. Which lab hours you would like to attend.
5. 500-word (max) essay about why you are interested in joining this program and why you feel you would be a successful teacher and valuable asset to the future execution of the mission of BME HealthReach.

Applications are due April 11, 2014 by 5pm. Acceptance emails and registration permits will be sent out by April 17, 2014.
