Dear PCS Students,

One behalf of the biomedical engineering (BME) department, I extend a warm welcome to you. Together, we shall explore the world of biomedical engineering and how you can become involved in the exciting journey to improve the quality of life for mankind.

You will learn early on in the program that biomedical engineers are problem solvers. Becoming good at this trade entails being creative. Therefore, the weeks’ activities are so designed to walk you through the process of unleashing your creativity to solve biomedical engineering problems. The program is packed with lots of fun and hands-on activities that you will do in teams. Examples include designing wearable sensors that use LEDs to “visualize” the heart beating, and using your bioelectricity to switch LEDs and control the mechanical arm of a robot. The ultimate goal is to demystify the esoteric ideas surrounding biomedical engineering and instill in students the “I can do it” attitude. It is hoped that this will in turn motivate students to pursue this field in college and as future careers.

We will be working in the same laboratory that college seniors use for their senior design projects, to give you a sense of the advanced undergraduate engineering work environment. The pace will however be slower and tailored to your level since for most of you, this is your first time. Best of all, the program introduces fundamental biomedical engineering concepts in a manner that is easy to grasp and fun, as well as apply to solving practical problems.

See you all soon!

Sincerely,

Prof. Patrick Kumavor
Assistant Professor-in-Residence
Department of Biomedical Engineering
University of Connecticut