Biomedical Engineering Program (BMEG)

Definition: application of the principles and problem-solving techniques of engineering to biology and medicine.

Focus: on the advances that improve human health and health care at all levels.

Department of Chemical and Biomedical Engineering Statler College of Engineering







Introduction

- Carbon nanotubes (CNTs) are currently being used in applications ranging from electronics to medicine
- Human exposure to CNTs is a growing concern
- Inhalation of CNTs could possibly induce pulmonary fibrosis



• Goal of the capstone project: To develop a non-invasive classifier that can provide early detection of fibrosis as a result of CNT exposure in the workplace.





Need for growth: a graduate program in BMEG

Faculty:

- 9 Directly Affiliated Faculty

Facilities:

 Additional Research Resources: ~ 8,000 sqf (wet and dry labs, as well as graduate student offices) in AERB

Program developed and approved by BOG on April 20 - Highly flexible curriculum: research driven



Graduate Student Population: - Grad students to start in Fall 2018: expected 1st year: 6 PhDs - Total "BMEG" grad students: 12 PhDs











