BME DAY
Healthcare Entrepreneurship

CO-SPONSORED BY BIOHOUSTON

Friday, May 1, 2015
UNIVERSITY of HOUSTON
**Celeste Fralick, Ph.D.**
Chief Data Scientist & Principal Engineer at Intel Corporation

"A Data Scientist Wolf in BME Sheep’s Clothing"

An odd career choice for a biomedical engineer, the data scientist role has become a logical progression within the hottest ecosystem known as the Internet of Things. With connectivity increasing in every form factor imaginable, the data scientist can impact every market – including medical. The BME is well equipped to embrace this demanding role, taking experience from regulatory, engineering, statistics, design, and software studies. Dr. Fralick will review the roles and responsibilities of a data scientist, typical processes, and how biomedical engineering studies are a natural fit for this new position.
Our main goal is to develop leadership in academia, government, and industry nationally and globally. The importance of global scientific, social, and cultural interaction and the demands of the dynamic, ever-changing global healthcare economy have been strongly emphasized in our undergraduate and graduate programs. To achieve these goals, we are developing new three emerging academic and research fields including:

**Neural and Rehabilitation Engineering**
We focus on neural implants, neurogenesis, neurochips, cognitive engineering, neural signal and image processing and modeling, and brain computer interface from hardware to experimentation.

**Biomedical Imaging**
We focus on in vivo molecular and cellular imaging research with strong emphasis on the imaging of cancer biomarkers, therapy assessment, and cancer biology models etc. We also focus on clinical cardiovascular and brain imaging and develop an advanced interdisciplinary research field based on human cardiovascular and brain imaging.

**Genomics, Proteomics and Bionano Engineering and Science**
We focus on gene regulatory networks, genetics of systems biology, computational biology, and infectious diseases. We also focus on innovative drug discovery and design, translational research and personalized medicine, as well as the recent advances in bionano science and engineering.

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