

2019 NSE Grantees Conference

Challenges and NSF Perspective of Biosensing Technology

Dr. Chenzhong Li
Program Director



Abstract: The integration of nanotechnology and biosensing technologies has been attracted substantial research efforts due to the broad applications in healthcare, environmental, homeland securities and agricultures, and this is reflected in the continued growth of global markets for such technologies. The goal of the session is to bring audiences together for idea exchange and networking related to conducting and funding cutting-edge research in the fields of nanotechnology and biosensors. The challenges and perspectives on next generation of biosensing technology will be briefly introduced. Research opportunities within the Chemical, Bioengineering, Environmental and Transport Systems (CBET) Division's "Bio clusters" within the Engineering Directorate of the National Science Foundation (NSF) will be provided.

Bio: Dr. Li is the NSF program director of Biosensing program in the Chemical, Bioengineering, Environmental and Transport Systems (CBET) Division. Dr. Li is an expert in bioelectronics, specifically in the development of biomedical devices such as wearable/portable biosensors. The Biosensing program supports fundamental and translational engineering research on biosensing devices and novel analytical methods for measurement and quantification of biological analytes. In recognition of his achievements, Dr. Li received several awards and honors including 2016 Pioneer in Technology Development Award by the Society of Braining Mapping, the award of American Associate of Cancer Research (AACR) Minority-Serving Institution Faculty Scholar in Cancer Research Award in 2016