Brian T. Cunningham is a Professor in the Department of Electrical and Computer Engineering and the Department of Bioengineering at the University of Illinois at Urbana-Champaign, where he also serves as the Interim Director of the Micro and Nanotechnology Laboratory, and as Director of the NSF Center Innovative Instrumentation Technology (CIIT). His research is in the development of biosensors and detection instruments for pharmaceutical high throughput screening, disease diagnostics, point-of-care testing, life science research, and environmental monitoring. He has published 125 peer-reviewed journal articles, and is an inventor on 75 issued US patents. Prior to joining the faculty of Illinois in 2004, Prof. Cunningham was a co-founder of SRU Biosystems in 2000. He founded Exalt Diagnostics in 2012 to commercialize photonic crystal enhanced fluorescence technology for disease biomarker detection. Acoustic MEMS biosensor technology that he developed in his early career at Draper Laboratory has been licensed and commercialized by Bioscale, Inc. for applications in pathogen detection and diagnostics. Prof Cunningham's work has been recognized with the IEEE Sensors Council Technical Achievement Award for the invention, development, and commercialization of sensors based upon photonic crystals. He is a Fellow of IEEE, OSA, AIMBE, and is a member of the National Academy of Inventors. Additional information on his research can be found on his web site: http://nano.ece.illinois.edu.