



**Graduate Seminar (EEL 6936)**  
**Department of Electrical Engineering**  
**[http://ee.eng.usf.edu/Grad\\_Seminar](http://ee.eng.usf.edu/Grad_Seminar)**

**Erick N. Maxwell, Ph.D.**  
**Principal Research Engineer**  
**ELYSYS Chief Systems, Engineer**  
**Lead STEM Coordinator**  
**Georgia Tech Research Institute (GTRI)**

Friday, November 18, 2016, 2:00 p.m. - 3:25 p.m.  
Center for Urban Transportation Research (CUTR) Room 202

## **RF and More: Preparing for the Global STEM Workforce**

### **Abstract**

This presentation will provide an overview on research and career opportunities at the Georgia Tech Research Institute (GTRI), a nationally-regarded research and development organization focused on solving engineering problems for the federal government and industry sponsors. With more than 2,000 scientists, engineers, support professionals and students, GTRI tackles challenging component and systems engineering problems in electronics, electromagnetics, electro-optics, cybersecurity, high performance computing, information systems, threat systems, and more. The presentation will also offer invaluable insights on how graduate students can prepare themselves to become competitive for the global STEM workforce.

### **Biography**



**Dr. Erick N. Maxwell** is Principal Research Engineer, ELYSYS Chief Systems Engineers, ELYSYS Lead STEM Coordinator and Instructor at the Georgia Tech Research Institute/Georgia Tech University in Atlanta, GA. He is a recognized expert in RF/microwave Circuits and Systems with 14 years of experience and noteworthy contributions. He has spoken as a subject matter expert in 28 technical presentations that include 9 invited talks and a keynote address. He holds 3 Full U.S. patents and has delivered 36 key products, including 4 that pushed the state-of-the-art for electronic warfare receivers. Dr. Maxwell has received 23 professional awards including induction into the National Academy of Inventors. As the ELYSYS Lead STEM Coordinator, Dr. Maxwell develops, manages, and executes a research and educational program that encourages, equips, and trains participants in the engineering design process, while engaging them

in the development of system prototypes for enhancing the operational efficiency of the lab. Dr. Maxwell earned his doctoral degree in electrical engineering from the University of South Florida in 2007 within the Center for Wireless and Microwave Information Systems (WAMI) where his dissertation focused on novel circuits, systems, and methods for electromagnetically characterizing and quantifying isolated tumor cells. His doctoral work was supported by the prestigious UNCF Merck Dissertation Fellowship, the Florida Education Fund McKnight Doctoral Fellowship, and the NSF funded Integrative Graduate Education Research Traineeship (IGERT) program.

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