SUMMARY OF PROJECT:

This application is to request funds in support of a residency with a master teacher of voice and vocal pedagogy in spring of 2016. George Smith is a respected teacher of classical voice, whose students sing leading roles in opera companies across the country and teach his methods at colleges and universities. Through a variety of activities Mr. Smith’s visit to campus will make an immediate impact on the voice students of the School of Music as well as our vocal community at large. He will present a public masterclass, teach one-on-one lessons with undergraduate and graduate voice majors, and work with Masters-level vocal pedagogy students. This request for funds is in support of Mr. Smith’s visit for his travel, lodging, a per diem, and an honorarium for a three-day residency.
SUMMARY OF PROJECT:

I teach Neural Engineering (BIOEN 6440), which is a young field that is a combination of at least a dozen other fields of study. It is notoriously difficult to learn or teach, and there are no good textbooks available. Most importantly, it stands out from other engineering fields in that it does not yet have a well developed set of laws to work from. To address these challenges I propose to purchase several low-cost recording systems that the students will use to gain hands-on experience in neurophysiology. In addition, these recording systems will be used for class projects over the next few years to develop a Virtual Neurophysiology Workbench. This is an idea I have been developing that combines mathematics, computational modeling, medical devices and neural recording to enhance understanding of Neural Engineering. In addition, I plan to use these recording systems to develop a new lab for Bioelectricity & Electrophysiology (BIOEN 6460).
SUMMARY OF PROJECT:

I am seeking $3,300 to purchase two devices to improve the “experimental design” component of the ME EN 3300 Strengths of Materials laboratory. Purchasing an infrared thermal camera ($1,350) and a set of serrated jaw faces ($1,963) for the existing tensile testing machine specimen grips will significantly expand the range of experiments students can devise to assess their hypotheses for the Experimental Design lab exercises. Providing students with “the ability to design and conduct experiments and subsequently analyze the resulting data for design or other engineering purposes” is a required outcome of the ME EN program, according to both our explicit Department Objectives and the ABET engineering accreditation organization. The proposed upgrades to the laboratory will contribute directly towards that outcome. Typically, in the two semesters of an academic year, a total of 14 lab sections are taught to a total of more than 150 students.
SUMMARY OF PROJECT:

We propose to invite Dr. Thomas R. Kratochwill, Sears Bascom Professor at the University of Wisconsin-Madison to the University of Utah. Dr. Kratochwill is an internationally renowned leading scholar in the field of School psychology and single-case design (SCD) research methodology. Dr. Kratochwill will present updates and recent advances in SCD methodology including the What Works Clearing House’s Standards and recent advances in data analysis. Because of our respective departmental program emphasis on teaching students how to conduct scientifically rigorous research in applied settings, Dr. Kratochwill will also present options for the integration of SCD methodology into practice-based research settings with a special emphasis on developing strong causal inference in intervention program implementation. Many faculty, students, and practitioners have not been exposed to new developments in this area and would profit greatly from advanced knowledge in these applications.
SUMMARY OF PROJECT:

This project seeks to bring the tools of the Digital Humanities to the Foreign Language classroom. Applicants will attend a one-week Digital Humanities workshop in June 2016 where they will acquire the tools for digital text mapping and GIS. In spring 2017, Professors Baumgartner and Guevara will co-teach the course “Coming to America: The Mapping of Migration, Exile, and Diaspora.” In addition to offering the students an attractive and timely topic, this course will familiarize students with the research and representational tools the Digital Humanities offer. The course will also include a 1-credit language component in German and Spanish allowing students to read primary documents and secondary sources in the representative languages. Applicants will present their experiences of bringing the Digital Humanities to the Languages and Literature classroom at the Alliance of Digital Humanities Organizations (ADHO) Conference in Mexico City in 2018.
SUMMARY OF PROJECT:

The UUSOM Curriculum Committee recently approved a novel elective course for medical students, MDID 6515 – Maternal & Neonatal Survival: Theory to Practice. This elective will provide an opportunity for UUSOM students to gain the theoretical knowledge and hands-on skills to serve as master trainers for intensive neonatal and maternal survival courses during their clinical training and future careers. We are seeking support to purchase material resources for this course and will go towards the purchasing of low cost, low tech, relatively high fidelity simulators and teaching materials for Helping Babies Breathe, Essential Care for Every Baby, Essential Care for the Small Baby and Helping Mothers Survive Master Trainer courses.