



**TEACHING AND LEARNING IN AN ENVIRONMENT OF NEW
TECHNOLOGY (TALENT)
PROJECT SUBMISSION FORM**

Check the appropriate box:

X Innovation in Teaching /Learning

Educational Research

Principal Investigator or Project Leader:

Name	Email	Phone
Dr. Brian Young	Brian.young@university.edu	617.555.1111

Location of Project:

TUSDM

Project Applicants:

Please provide name, school, and primary department, as well as all institutional and academic affiliations, for each applicant. Students need to indicate year of graduation.

Name	Title	Role	School/Institute/Department

Project Title (12 words or fewer): Real-time Self-Assessment Using Google Glass for Training Students in Complex Clinical Procedures

Project Short Description (25 words or fewer): The aim is to facilitate accurate self-assessment and faculty assessment of complex multi-step clinical procedures using Google Glass.

Support Needed From TALENT Committee:

	Yes	Office Use
Assessing Study/ Program Feasibility		
Resources for Study Program Design	X	
Identifying Collaborators		
Identifying Funding Sources	X	
Other (Please describe)		



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Please fill out ONE of the following categories:

**1. Proposed Teaching/Learning Project Start Date and End Date: July 1, 2016-
June 30, 2017**

Full Project Details

(250 words or fewer, please include Background & Purpose, Materials and Methods, Significance to Teaching/Learning)

For students to be able to self-assess in the clinic they need to have the ability to record themselves and then have access to a procedural example for comparison. When faculty members demonstrate the proper way to perform the procedure this is the “benchmark against which students can compare their own performance”. TUSDM proposes enhancing self-assessment in the Endodontics course by using both a video recorder, to create the faculty expert “benchmark”, and Google Glass to live stream the benchmark video, enabling students to simultaneously view the procedure in real-time using Google Glass, without having to move their head or disengage from their manikin. Using Google Glass would help move students towards technology literacy and better preparing them for a 21st century practice.

Students will be recording themselves working on completing a procedure using Google Glass, while simultaneously having access to the benchmark video which would free-up the faculty member to walk around the group giving direct feedback to each student. Students will compare and contrast their own work against the benchmark by writing a reflection to include areas of strength and areas where they might improve. This will give students an opportunity to register the difference when shown a comparison, helping them to self-correct and can be done multiple times to increase accuracy and improvement. In addition, faculty will have direct access to the student’s perspective and performance which allows more opportunities for targeted interaction and feedback.

TUSDM intends to pilot the activity with a small volunteer group of 6 students first.

Please describe the measurable outcome(s) you are hoping to achieve? (50 words or fewer)

- create a “benchmark” example demonstrating the proper way to perform a complex dental procedure.
- create “how to” materials for using Google Glass for teaching clinical procedures.



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- teach students how to self-assess and introduce them to reflection.
- create opportunities for faculty guided reflection on technical steps.