**Re-energize Workshop**

**Texas State University**

**May 16-20**

**Injecting Training Materials Into The Classroom**

Instructions: Using the suggested teaching activities presented at the end of each lecture, identify two activities that most interest you. Fill up the form below to show a plan that integrates these activities into your classroom. Submit the forms at the end of this session.

**Name:** Brandon Gurwell

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**Institution:** Southwest Texas Junior College

**Title of the Course:** Introduction to Engineering (ENGR 1201) or Engineering Graphics (ENGR 1304)

**Expected Number of Students:** 20

**Expected Number of Minority Students:** 15

**Description of Course Activity (i.e. Homework, Example, Quiz, Project, etc.):** Project

**Objectives of Activity:** To design, build, and test wind turbine blades.

* Maximize power generation
* Conduct testing to optimize the following parameters
  + Blade length
  + Number of blades
  + Blade pitch

**Student Deliverables:**

* Wind turbine blades
  + CAD drawings
  + Prototype
* Testing Documentation
* Plots/Graphs
* Written report