**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**

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**Institution:**

Coastal Bend College, Beeville

**Title of the Course:**

Beginning Algebra, Intermediate Algebra

**Expected Number of Students:**

18

**Expected Number of Minority Students:**

10

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

Stage 1. Application of systems of linear equations and inequalities

* Expose students to real life problems, like:

Total cost (Acquisition and Maintenance) of incandescent vs. fluorescent bulbs

High efficiency vs low efficiency HVAC equipment

Stage 2. Harvesting candidates to incorporate them, first into ongoing CBC projects (solar and wind). Start data acquisition and organization of research basics.

Stage 3. Create more research projects.

**Objectives of Activity:**

* Demonstrate usefulness of mathematics in everyday decisions
* Expand the base of students engaged in research sensitive activities
* Harvest a group of STEM motivated students that could do applied research in the use of green energies and possibly transfer to 4 year colleges for continuing education

**Student Deliverables:**

**Implementation Plan:**