



Socially Responsible Engineering & Technology Program of Study

PILOT PROGRAM

The College of New Jersey's Center for Excellence in STEM Education has partnered with the New Jersey Department of Education to create a model Program of Study in Engineering & Technology for the high school level.

Four courses (for grades 9-12) have been developed by our state's top STEM educators, business leaders and industry professionals.

The curriculum is project-based, standards-driven and connects cutting edge design challenges with career preparation and 21st Century Skill development. Additionally, the curriculum is correlated with Technology Student Association (TSA) competitive events and activities.

High school students enrolled in this Program of Study will have the opportunity to graduate with college credit that can be applied toward several STEM-related degree programs at county colleges and/or The College of New Jersey.

We are currently accepting applications from districts who would be interested in piloting the program, beginning in fall 2012. Once the curriculum is implemented, pilot districts will be expected to provide feedback, share successes and challenges with project staff from The College of New Jersey.

If selected, up to four teachers from your school will receive a stipend to attend a required summer training institute at The College of New Jersey from August 13-17, 2012. Your school will also receive a \$1,500 grant for materials, ongoing professional development and access to online resources and tools.

The deadline to apply is June 22, 2012.

Districts will be notified of their acceptance into the pilot program the week of June 25, 2012.

INSTRUCTIONS:

- 1. COMPLETE THE ATTACHED APPLICATION (Pages 1-3)**
- 2. RETURN FORMS BY EMAIL (goeke2@tcnj.edu) OR FAX (609-771-3330) to:
Alison Goeke, Director, CTEP-STEM**
- 3. IF YOU HAVE ANY QUESTIONS PLEASE CONTACT Alison at 609-771-3244**

Socially Responsible Engineering & Technology Program of Study
Pilot Program
Application – Page 1

DISTRICT CONTACT INFORMATION

School Contact Information					
School Name:					
Street Address:					
City:		State:		Zip Code:	
Phone:		Fax:			
Principal's Name:	Pre:		First:		Last:
Principal's Email:					
School Website:					

Teacher Contact Information					
(up to four teachers can attend the Summer Training Institute)					
Teacher 1's Name:					
Teacher 1's Email:					
Grade:		Subject:		Number of years teaching	
Approximate Number of Student's Participating in Pilot:					
Teacher 2's Name:					
Teacher 2's Email:					
Grade:		Subject:		Number of years teaching	
Teacher 3's Name:					
Teacher 3's Email:					
Grade:		Subject:		Number of years teaching	
Teacher 4's Name:					
Teacher 4's Email:					
Grade:		Subject:		Number of years teaching	

District Contact Information						
School District:						
District Street Address:						
District City:		State:		Zip Code:		
District Phone:		Fax:				
Superintendent's Name:	Pre:		First:		Last:	
Superintendent's Email:						
District Website:						
District Technology Ed or STEM Supervisor:				Email:		

Socially Responsible Engineering & Technology Program of Study
Pilot Program
Application – Page 2

DISTRICT PROGRAM OF STUDY CAPACITY STATEMENTS

District/School Name:

Instructions: Please respond to each of the following four questions.

1. **Teaching Staff:** Describe and provide specific examples of any unique characteristics of your district and the district's current instructional staff that would contribute to the pilot process. With regard to the teachers identified in the district's application, please provide examples of the strategies and activities that these teachers have taken to improve their content expertise and/or teaching skills (*e.g., membership in content-relevant professional organizations and/or teacher organizations; attendance at content-relevant and/or professional conferences, seminars and/or webinars; serving as an advisor or judge for a student career and technical student organization; serving as an advisor for a content-relevant afterschool student organization; conducting research in the teacher's content area; continuing education; content-relevant afterschool or summer employment or volunteer activities*).

2. **Curriculum:** Describe any current or previous state-approved Programs of Study in STEM that your district has implemented. Describe the curriculum model or sequence of courses that is currently being used by your district to address STEM (*e.g. Project Lead the Way, academies, teacher-developed courses, etc.*). If possible, provide examples of how the district is incorporating 21st Century skills in the curriculum (*e.g., cross-curricular teaching and learning, project-based learning, integration of information technology skills across the curriculum, establishment of professional learning communities*).

3. **Facilities:** Describe the classroom spaces, labs, etc. that will be utilized to pilot the Program of Study, including details regarding equipment, machines, tools and materials.

4. **Postsecondary Articulation Agreements:** Describe any experience the district has had in establishing partnerships that led to postsecondary credit for the district's high school students and give specific examples (*e.g., tech prep programs, programs of study, dual or concurrent credit agreements with postsecondary institutions, AP courses, NJ PLACE or school-to-apprenticeship agreements*).

Socially Responsible Engineering & Technology Program of Study
Pilot Program
Application – Page 3

COMMITMENT TO PILOTING THE PROGRAM OF STUDY

District/School Name: _____

Instructions: Please respond to the following two questions.

1. **Commitment to Pilot:** Describe the district's interest and commitment to piloting the *Socially Responsible Engineering & Technology Program of Study*. Identify the reasons for wanting to implement this program of study. Describe the district's commitment to and/or experience with the "Socially Responsible Engineering & Technology" theme and include specific examples in instructional areas, if possible (*e.g. sustainability or green design projects in Technology Education or Science courses*).

2. **Commitment to recruiting and scheduling:** Describe the district's plan to recruit and schedule students in the grade nine course in September 2012.