## Project Abstract

Increasing the Productivity of the Engineering Degree Pipeline in the High Needs Southern San Joaquin Valley: A Sound Cooperative Arrangement Project with Bakersfield College California State University-Bakersfield (CSUB), the lead college in this cooperative arrangement project, is one of 23 campuses in the California State University system. CSUB is the only fouryear public institution of higher education within a 100 -mile radius of Bakersfield. Bakersfield College (BC), the partner institution in this project, was founded in 1913 and is the oldest continually operating community college in California. Located just 10 miles from each other, CSUB and BC face similar challenges serving a high need area. This project addresses all Title V Priorities and is a geographically and economically sound cooperative arrangement.

| GOALS |
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| Goal 1: To develop a new CSUB |
| Power/Energy Engineering track |
| that is responsive to student and |
| local industry needs and is |
| designed with a liberal |
| engineering framework using |
| pedagogy and methods known to |
| increase learning. |
| Goal 2: To increase |
| postsecondary access and success |
| of local Hispanic and other high |
| need students through |
| intersegmental collaboration and |
| development of an equitable, |
| seamless, and scaffolded degree |
| pathway from high school to |
| completion. |
| $\underline{\text { Goal 3: To increase CSUB }}$ |
| degree completion productivity |
| through development of new, |
| well-designed institutional STEM |
| capacity that is responsive to |
| student and service area needs. |

Absolute Priority: The proposed project is specifically designed, based on principles clearly defined in the best available research literature, to increase the success of CSUB's highest need students-Hispanics who are underprepared and least likely to complete an engineering degree.
Competitive Preference Priority 1: The project will develop a suite of integrated high impact services providing robust support to propel students along their path toward degree completion.
Competitive Preference Priority 2: The project will develop online strategies and methods to make services to Power//Energy engineering pathway students accessible and cost-effective.

