

Central California Industrial Assessment Center

Work-based Learning Opportunity
For Students



Background:

US Department of Energy Office of Manufacturing and Energy Supply Chains Industrial Assessment Centers (IAC)

IACs train the next-generation of energy savvy professionals, more than 60 percent of which pursue energy-related careers upon graduation. IAC assessments are in-depth evaluations of a facility conducted by faculty with students from participating colleges. After a remote survey of the plant, the team conducts a one day site visit to take engineering measurements. The team performs a detailed process analysis to generate specific recommendations with estimates of costs, performance, and payback times. Within 60 days, the plant receives a confidential report detailing the analysis, findings, and recommendations.

Before this year, only four year universities could be IACs!

Imagine how great these assessments look on our students resumes.



Project Summary:

The Central California Industrial Assessment Center Program, hosted by Kern Community College District, will establish an IAC offering energy assessments to small- and medium-sized manufacturers (SMMs) in Central California. This includes the 23 Colleges of the South Central Coast Region and Central Region Consortia.

Target Programs:

Industrial automation

Mechatronics

HVAC

Business Administration

Architecture

Construction

Enhancing participants' skills in assessing SMM facilities and opening career pathways in clean energy, manufacturing and engineering

Collaborating with industry, consortia colleges, workforce development agencies, and labor unions, the program will offer comprehensive technical training, hands-on assessment opportunities at SMMs, and real-world experience in clean energy assessments.

Opportunities for SCCRC Colleges

Faculty

Stipends Available

Participate in UC Irvine Train-the-Trainer (16 hours virtual and 1 day at UC Irvine)

Incorporate Assessment some or all of assessment skills in to classes

Lead Industrial Energy Assessment teams and make recommendation

Students

Participate in UC Irvine Train-the-Trainer (16 hours virtual and 1 day at UC Irvine)

Participate in Industrial Energy Assessments and report-outs (stipends available)

Small and Medium- Sized Manufacturers

Work with colleges to have assessment done for you facility

Some data collection in advance

One day onsite assessment

*For purposes of the IAC Program, SMMs are defined as manufacturing firms with: (A) gross annual sales of less than \$100,000,000; (B) fewer than 500 employees at the plant site of the manufacturing firm; and (C) annual energy bills that total more than \$100,000 but less than \$3,500,000. 42 U.S.C. § 17116(a)(6). Manufacturing firms are defined at North America Industry Classification System (NAICS) 31-33. For purposes of the IAC Program, SMMs are further defined to include water and wastewater treatment facilities, as well as federally owned manufacturing facilities.



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The Ask

Identify Faculty Who Many Be Interested and connect them with Justin or Dave

Identify Small and Medium- Sized Manufacturers (SMMs) who maybe interested

- **Potential Significant annual energy savings \$15K -\$100K+**
- **Technical Assistance on where to find funding for implementation.**
- **Goal 48 SMMs over 3 years**

Identify Students may be interested in this work-based learning opportunity

- **Connect them with Justin or Dave**
- **Goal 120 Students over 3 years**



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Potential For Internship Opportunities Helping Manufacturers Implement Energy Savings Recommendations.

Potential Incumbent Worker and Contract Training Opportunities for Manufacturer's workers.

Questions?

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