

ATTACHMENT "A"
Academic Year 2017-2018

Program (Discipline) or Department Name	TOPS (Required for programs)
Electronics Technology	0934

List the projects included in your 2017-2018 by name and number

Number	Project Name	Total Perkins Funds Requested
1.0	CIM CELL Investment	\$68,020
2.0	Mechanical Systems Enrichment	\$82,500
3.0	Enterprise Resource Planning Trainer	\$45,260
4.0		
5.0		
Total Amount of Perkins Funds Requested		\$195,780

Perkins Discipline/Department Planning/Implementation Team

VTEA Primary Contact Name	Phone	Email Address
Manuel Fernandez	661-395-4645	manferna@Bakersfieldcollege.edu

List other departments/discipline members/key staff who will be involved in the 2017-2018 Perkins plan and implementation:

Name	Phone	Email Address
Roy Allard	661-395-4080	rallard@bakersfieldcollege.edu

Signatures (Required)

Your signature below indicates that this proposal has the support of the department/discipline and that the plan is aligned with overall college objectives:

__ Department Chair (Date) Dean, Career Technical Education (Date)

**ATTACHMENT "B" (Limit to one project)
Academic Year 2017-2018**

Program (Discipline) or Department Name	TOPS (Required for programs)
Electronics Technology	0934

Description of Project

Number	Project Name	Total Perkins Funds Requested
1.0	Electronics Core Indicators Improvements	\$195,780

Limit to one project

<p>Briefly describe gap to be addressed (Briefly describe program improvement issue(s))</p>	<ul style="list-style-type: none"> • Brief Summary of Request To implement the improvements in our core indicators, essential program changes are proposed for this VTEA plan: <ol style="list-style-type: none"> 1. Our existing Computer Integrated Manufacturing course, ELETB4 has been utilizing 24-year-old technology. The system has been rebuilt multiple times, but the software support was discontinued with Windows XP. The situation is dire as we are no longer able to meet objectives of the course and perform hands on training of managing work in process and work order releases. This \$68,000 will begin the process of replacing the oval conveyer in INDT7A and allow exposure to current technologies recommended by our advisory board. The addition of hands on activities will greatly improve retention of knowledge and led to higher completion rates. 2. In our Mechanical Systems course, ELETB70, we currently only have hands on activities for pneumatics, a small portion of the knowledge base covered. We are requesting trainers to cover the remaining subjects; simple machines, tap and dyes, gear boxes, and tube bending terminals. With these additions, we will increase our number of successful job placements by arming students with up to date technologies. 3. In our Computer Integrated Manufacturing course, ELETB4 has a non-functioning ASRS, Automatic Storage and Retrieval System. The trainer needs to be replaced with current hardware to integrate pallets into the series process flow. This will enhance our course to reflect industry recommended technology, rather than having to utilize out-of-date features with limited skill attainments.
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- **Brief Rationale of Program**

Electronics Technology at Bakersfield College provides training for eight different industry sectors in Kern County. The technical areas of electronics, instrumentation and control, automated manufacturing, industrial maintenance, and electronic communications provide the wide breadth of courses needed to support the industry sectors. Since we began receiving our VTEA/Perkins funding, enrollment has grown by 82%, and our core indicators have improved substantially.

- **Core Indicator Improvement Issues**

Overall, improvement of our program's core indicators increases the College and District averages as well.

Skill Attainment: Currently we average above the State-negotiated target. We wish to consistently exceed the target, approaching as close to 100% as possible. We have specific needs that have been addressed by advisory board when it comes to staying current with technology. We are also a program that offers 11 different courses, each with specific equipment.

Persistence: Our three-year average is below the negotiated target. Through project efforts, we wish to consistently exceed the target, eliminating as many barriers within our control as possible.

Employment: Our three-year average is higher than the negotiated target – a direct result of past program improvement efforts. In order to provide students with relevant hands on experience in our courses, we must invest in technology that is being utilized by local employers.

NT Participation: We average greater than 10% below target. In addition to the “across program” efforts for NT recruiting, retention, and completion, we are directly focusing on retaining NT students so that they are included in the student cohort group. Our short-term goal is to meet the target as soon as possible.

NT Completion: We average greater than 13% below target. We feel that by increasing NT retention, and developing Job Skills Certificates, NT completion rates will increase. Our short-term goal is to meet the target as soon as possible.

	<p>EMSI Data: 2015 Median Hourly Earnings: \$20.99, 318 Annual Openings</p> <p>SOC Codes for 15 different applicable occupations were used for the data above. (Data shown was obtained for our CTE Program Review. Specifics can be viewed on that document or will be provided upon request.)</p>
<p>Briefly describe how the gap(s) will be addressed (Briefly describe how the issue(s) will be addressed)</p>	<p>Skill Attainment: Increase students' access to relative technology, resulting in more student engagement and involvement with local employers.</p> <p>Persistence: Deliver courses that are challenging, industry-relevant, and provide a wide range of career options that are attractive to the diverse student population we serve.</p> <p>NT Participation and Completion:</p> <ul style="list-style-type: none">a) Focus on retention of NT students from semester to semester so they will remain part of the cohort that is used for core indicator data. The general retention efforts listed above apply well to NT students.b) Investigate, and implement where possible, career pathways that are attractive to NT students, particularly females.c) Utilize available College resources as well as our industry professional organizations that address academic deficiencies, provide a sense of identity and "belonging", and provide supportive encouragement to our NT students.

Measurement or Evidence of Project Success	<ul style="list-style-type: none"> • <i>Identify specific core indicator measures to be improved/evidence:</i> <ol style="list-style-type: none"> 1. Improve skill attainment 3% among our program students, focused specifically on all courses that are advanced in nature (ELET course numbers above 50). 2. Increase the number of Certificates of Achievement (CA) awarded by 30%; increase Job Skills Certificates to twice the annual CA amount. 3. Increase persistence core by a minimum of 2% above negotiated target. 4. Increase NT participation and completion by a minimum of 5%. •
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Description of Project Activities and Spending Plan (add or delete rows as needed):

No.	Describe Activity	Timeline	Must Reference Requ'd. Use	Approx Amount of Funds Requested	Object Code	Description of Vendor
1.0	Purchase and install replacement CIM CELL	To be completed by June 30 th 2017	6	\$68,020	6419	FESTO

2.0	Purchase and install new mechanical system trainers	To be completed by June 30 th 2017	6	\$82,500	6419	AMATROL
3.0	Purchase and install new ASRS	To be completed by June 30 th 2017	6	\$45,260	6419	FESTO

Describe project details including:

- who will responsible for project
- when it will be done
- what outcomes are expected or targeted and
- how/when/who assessment will be reported

Responsibility: *Ordering and Implementation-Manuel Fernandez and Roy Allard*

When it Will Be Done: See timeline above.

Expected/Targeted Outcomes: Increase of all core indicators as explained in the previous sections.

Assessment Reporting: VTEA reports will be completed by Department

