

ATTACHMENT "A"

Academic Year 2017-2018

Program (Discipline) or Department Name	TOPS (Required for programs)
Drafting Technology, Architecture, & Engineering	The following TOPS codes align with this proposal: 0201-Architecture 0953- Drafting Technology 0924- Engineering Technology 09-Engineering and Industrial

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

Number	Project Name	Total Perkins Funds Requested
1.0	Attendance for two instructors at industry-recognized training and certification events (Autodesk University, SolidWorks world, CITEA conference, etc.)	\$8,000
2.0		
3.0		
4.0		
5.0		
Total Amount of Perkins Funds Requested		\$8,000

Perkins Discipline/Department Planning/Implementation Team

VTEA Primary Contact Name	Phone	Email Address
Darren Willis– Industrial Drawing Instructor	395-4268	Darren.willis@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
Klint Rigby – Industrial Drawing/Industrial Automation Instructor	395-4225	krigby@bakersfieldcollege.edu
Lidia Torres - Architecture Instructor	395-4579	ltorres@bakersfieldcollege.edu
Duane Anderson - Architecture Instructor	395-4374	duanders@bakersfieldcollege.edu
Patrick Adherhold – Engineering Instructor	395-4055	patrick.aderhold@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)
Architecture, Drafting Technology and Engineering	0201-Architecture 0953- Drafting Technology 0924- Engineering Technology 09-Engineering and Industrial

Description of Project

Number	Project Name	Total Perkins Funds Requested
1.0	Attendance for two instructors at Industry-recognized training and certification events (Autodesk University, SolidWorks world.)	\$8,000

Limit to one project

<p>Briefly describe gap to be addressed (Briefly describe program improvement issue(s))</p>	<p><i>Brief Summary of Request:</i> This proposal will be for two instructors to attend industry-standard CAD certification and training in the upcoming year. Sending two instructors allows training to be taken in many areas such as new architectural software, new mechanical applications, etc. The two who attend will then come back and share what they learned with those who did not attend in this cycle.</p> <p><i>Brief Rationale of Program:</i> The District and the College have a goal of supporting programs of high growth/medium and high wage occupations. This proposal will provide those in need of basic training, re-training an opportunity for employment in the high growth area of CAD-related industries.</p> <p><i>Improvement Issue(s):</i> While Drafting Technology has a strong Core 4 (Employment) indicator score, its Core 1 deficiency of 28.67 related to skill attainment need attention, as do deficiencies in Core 5a (NT participation) @ -10.89, and Core 5b (NT completion) @ -19.79. Architecture has small deficiencies in Core 5b @ -4.68, and Core 4 @ -4.07.</p> <p><i>Core Indicators to Address: Labor Market:</i> Skill Attainment and Employment: These two indicators are interwoven in industrial drawing – the higher level of skill attainment the more employable our students are. The training and equipment purchased as per this VTEA plan will enable instructors to better equip students to meet industry needs and improve these two core indicators.</p> <p><i>Supporting Labor Market Data (data provided by SOC Code): See EMSI Data Below</i></p>
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EMSI Data:

2015 Jobs	2020 Jobs	Change (2015-2020)	% Change (2015-2020)
4,026	4,451	425	10.6%

Occupation	2015 Jobs	2020 Jobs	Change	% Change
Construction Managers (11-9021)	801	894	93	12%
Cost Estimators (13-1051)	713	801	88	12%
Architectural and Civil Drafters (17-3011)	267	278	11	4%
Drafters, All Other (17-3019)	16	19	3	19%
Aerospace Engineering and Operations Technicians (17-3021)	119	134	15	13%
Civil Engineering Technicians (17-3022)	190	207	17	9%
Electrical and Electronics Engineering Technicians (17-3023)	727	777	50	7%
Electro-Mechanical Technicians (17-3024)	19	22	3	16%
Environmental Engineering Technicians (17-3025)	67	82	15	22%
Industrial Engineering Technicians (17-3026)	60	68	8	13%
Mechanical Engineering Technicians (17-3027)	119	136	17	14%
Engineering Technicians, Except Drafters, All Other (17-3029)	498	522	24	5%
Surveying and Mapping Technicians (17-3031)	87	106	19	22%
Geological and Petroleum Technicians (19-4041)	312	368	56	18%
Commercial and Industrial Designers (27-1021)	31	37	6	19%

Briefly describe how the gap(s) will be addressed (Briefly describe how the issue(s) will be addressed)

When instructors have software-certification levels of proficiency, they are able to incorporate their advanced skills into curriculum development. Student skill achievement will rise as instructor competency rises. Opportunities to network with other post-secondary educators in these specific disciplines are few and far between; events like this will allow BC instructors to strategize methods for reaching out to non-traditional students, and assisting them to achieve completion.

Measurement or Evidence of Project Success	<p><i>Identify specific core indicator measures to be improved/evidence:</i> to increase student skill attainment by 2% per year</p> <p><i>Other measures to be improved/evidence:</i></p>
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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	Send two instructors for software up-grade training at an industry-standard event (Autodesk University, SolidWorks World, CITEA Conference, etc.)	This training occurs in fall of 2017 and spring/summer of 2018.	4	\$8,000		Autodesk Inc., Dessault Systems, CITEA, etc.

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

Project management of the proposal will be by the faculty listed on the introductory page.

This group is committed to the success of each one of the students in the programs.

When will it be done: This training will take place in the fall of 2017 and the spring/summer of 2018.

What outcomes are expected or targeted: The primary goal is to increase student skill attainment by 2% per year.

How/When/Who will assessment be reported: Assessment of the effectiveness of this proposal will be made by an improvement in core indicators reporting. This is provided by the District Office from data from various locations. Improvement should be seen in increased skill attainment and non-traditional student enrollments on a one year to a five year outlook.