

ATTACHMENT "A"
Academic Year 2017-2018

Program (Discipline) or Department Name	TOPS (Required for programs)
Radiologic Technology Program	122500

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

Number	Project Name	Total Perkins Funds Requested
1.0	Staff Development	\$5,000
2.0	Computers and Paper Printer for X-Ray Lab	\$10,000
3.0		
4.0		
5.0		
Total Amount of Perkins Funds Requested		\$15,000

Perkins Discipline/Department Planning/Implementation Team

VTEA Primary Contact Name	Phone	Email Address
Nancy J. Perkins	661-395-4247	nperkins@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
Jacy Hill	Ext 4249	Jacelyn.hill@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:

Nancy J. Perkins 12/8/16
 Department Chair (Date)

Carol Adams 12/13/16
 Dean, Career Technical Education (Date)

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

Program (Discipline) or Department Name	TOPS (Required for programs)
Radiologic Technology	122500

Description of Project

Number	Project Name	Total Perkins Funds Requested
1.0	Staff Development	\$5,000

**Briefly describe gap to be addressed
(Briefly describe program
improvement issue(s))**

- **Brief Summary of Request:** Staff development activities for the program will target core indicator #3.
- **Brief Rationale of Program:** To improve the persistence of all radiologic technology students by participation in State and regional conferences/workshops on medical imaging education and current x-ray technologies. To improve persistence and retention of students by providing workshops to the Clinical Instructors who serve as Professional Experts for the program and the lead community technologists that train our students at the clinical education sites.
- **Improvement Issue(s):** To improve the persistence and completion of radiologic technology students.
- **Core Indicators to Address/Labor Market:** There is one gap noted on the BC core indicators for radiologic technology in the area of Persistence and Transfer in Higher Education (Core 3). Program persistence is 66.57% (2016-2017). Females (13/24 for 54%) represent the highest population of non-persistent students, together with those students that are single parents (7/12 for 58%).

While persistence is still lower than the State target, improvement has been made since 2012-2013. The program has raised its persistence by 9.41% from 63.89% to 66.57% since 2012-2013. All other core indicators including skill attainment, completions, and employment are above the State negotiated performance goal (17-18% above in the indicators).
- **Labor Market:** In 2016, there are 502 jobs within Kern and Tulare counties with 51 projected openings (8.6%) to occur from 2016-2021. This is a drop from the projected openings of 13.3% from 2011-2016.
- **Supporting Labor Market Data (data provided by SOC Code):**
State of California, Employment Development Department (www.labormarketinfo.edd.ca.gov) projects an “outlook or demand” increase of 23.8% from 2010-2020 (from 17,200 to 21,300) for radiologic technologists in California.

Graduate surveys conducted by the program annually have demonstrated a 100% local employment rate for program graduates within Kern County from 2010-2015 (defined by graduates seeking employment and those not continuing their education).
- **EMSI Data:** EMSI median salary for 2015 is \$32.87/hr for Kern and Tulare Counties. This is approximately 14% above the national median salary of \$28.77/hr. The projected growth from 2016-2021 is 8.6% for Kern and Tulare Counties combined.
This is a high growth area for healthcare and jobs within Kern County as well as California. The Bakersfield College Radiologic Technology Program meets the needs of the local healthcare community as it is the only radiography program between Fresno, CA and the LA area.

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

Professional development is necessary for faculty to remain current in the medical industry technologies. This will be especially true in 2017-2018 as there will be two newer instructors (one hire in 2016-2017 and one in 2017-2018) in the radiology program working with the Program Director . Both regular and nontraditional learners will benefit from student engagement activities that will implement industry standards based on faculty growth and development activities. This will enable students to transition between the classroom and clinical environment and improve student success and persistence.

Measurement or Evidence of Project Success

- **Identify specific core indicator measures to be improved/evidence:**

 - Core 3 persistence

- **Other measures to be improved/evidence:**

 - The program expects the continued development of new classroom electronic learning and laboratory activities which will provide students with current practice standards and increase persistence and completion. The program will expand the principles of student engagement and embedded remediation implemented through the Habits of Mind initiative at BC. The program director and faculty will review college core indicators and program internal data to review improvement success.

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	Staff Development	Fall 2017 & Spring 2018	5a, 5b, 5d		5000 Travel	Professional Organizations & State Agencies
<p>Describe project details including:</p> <ul style="list-style-type: none"> • who will responsible for project • when it will be done • what outcomes are expected or targeted and • how/when/who assessment will be reported 						
<ul style="list-style-type: none"> • The Director will attend State Radiologic Health Branch meetings (one in fall & one in spring) and faculty will attend professional radiography educational conferences to remain current on radiation practices within the State to ensure that the program and its curriculum continue to meet State regulatory standards. One new faculty member will be hired for 2017-2018 in addition to the new hire in 2016-2017 and staff development will be critical to their development in a small department with only 3 full-time faculty members. • The program expects the development of new classroom activities which will provide students with current practice standards and increase relevance and persistence. Program core indicators and program internal data will be reviewed for improvement. • Reports will be included with the annual VTEA report, program assessment data and the regular program assessment process utilized for continuing accreditation. 						

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

Program (Discipline) or Department Name	TOPS (Required for programs)
Radiologic Technology	122500

Description of Project		Total Perkins Funds Requested
Number	Project Name	
2.0	Computers and Paper Printer for X-Ray Lab	\$10,000

**Briefly describe gap to be addressed
(Briefly describe program
improvement issue(s))**

- **Brief Summary of Request:** New computers (4) and one printer for the program will target core indicator #3.
- **Brief Rationale of Program:** To improve the persistence of all radiologic technology students the computers will be installed in the campus x-ray lab. They will provide 4 additional workstations to the current 2 workstations that students have to view digital x-ray images. Currently, the program is printing images onto film which has become prohibitive in cost and more importantly does not replicate industry standards of viewing images on computer monitors (not film).
- **Improvement Issue(s):** To improve the persistence and completion of radiologic technology students.
- **Core Indicators to Address/Labor Market:** There is one gap noted on the BC core indicators for radiologic technology in the area of Persistence and Transfer in Higher Education (Core 3). Program persistence is 66.57% (2016-2017). Females (13/24 for 54%) represent the highest population of non-persistent students, together with those students that are single parents (7/12 for 58%).

While persistence is still lower than the State target, improvement has been made since 2012-2013. The program has raised its persistence by 9.41% from 63.89% to 66.57% since 2012-2013. All other core indicators including skill attainment, completions, and employment are above the State negotiated performance goal (17-18% above in the indicators).
- **Labor Market:** In 2016, there are 502 jobs within Kern and Tulare counties with 51 projected openings (8.6%) to occur from 2016-2021. This is a drop from the projected openings of 13.3% from 2011-2016.
- **Supporting Labor Market Data (data provided by SOC Code):**
State of California, Employment Development Department (www.labormarketinfo.edd.ca.gov) projects an “outlook or demand” increase of 23.8% from 2010-2020 (from 17,200 to 21,300) for radiologic technologists in California.

Graduate surveys conducted by the program annually have demonstrated a 100% local employment rate for program graduates within Kern County from 2010-2015 (defined by graduates seeking employment and those not continuing their education).
- **EMSI Data:** EMSI median salary for 2015 is \$32.87/hr for Kern and Tulare Counties. This is approximately 14% above the national median salary of \$28.77/hr. The projected growth from 2016-2021 is 8.6% for Kern and Tulare Counties combined.
This is a high growth area for healthcare and jobs within Kern County as well as California. The Bakersfield College Radiologic Technology Program meets the needs of the local healthcare community as it is the only radiography program between Fresno, CA and the LA area.

<p>Briefly describe how the gap(s) will be addressed (Briefly describe how the issue(s) will be addressed)</p>	<p>Both regular and nontraditional learners will benefit from student engagement activities in the x-ray lab that will implement industry standards. Use of computer viewing and manipulation of radiographic images is a mandatory job skill that students must attain. Students will gain additional experience with the number of computers increasing and the time each student will be able to individually work on critical thinking activities and lab reports. This will enable students to make an easier transition between the classroom and clinical environment and improve student success and persistence.</p>
<p>Measurement or Evidence of Project Success</p>	<ul style="list-style-type: none"> • Identify specific core indicator measures to be improved/evidence: Core 3 persistence • Other measures to be improved/evidence: The program director and faculty will review college core indicators and program internal data to review improvement success. Course SLO's will assess the change in student performance in radiography laboratory courses (RADT B2a, 2b, 2c, 3a and 3b).

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
2.0	Computers and Paper Printer for X-Ray Lab	Fall 2017 & Spring 2018	5a, 5b, 5d	\$10,000	5000/6000 accounts for computers	Dell Computers & Daylight Medical Printers or Carestream Medical
<p>Describe project details including:</p> <ul style="list-style-type: none"> • who will responsible for project • when it will be done • what outcomes are expected or targeted and • how/when/who assessment will be reported <ul style="list-style-type: none"> • The program expects the development of new classroom activities relative to the viewing of radiographic images in a digital rather than analog format. This will provide students with current practice standards and increase relevance and persistence. Program core indicators and program internal data will be reviewed for improvement. • Reports will be included with the annual VTEA report, program assessment data and the regular program assessment process utilized for continuing accreditation. 						