

FACULTY NEEDS ASSESSMENT APPLICATION

Name of Person Submitting Request:		Tarif Halabi
Program or Service Area:		Electricity/Electronics
Division:		Applied Technology, Trans. & Culinary Art
Date of Last Program Efficacy:		Spring 2013
What rating was given?		Continuation
# of FT faculty 1	# of Adjuncts 8	Faculty Load: 7.1
Position Requested:		1 Full Time Faculty (Electrical Power Systems)
Strategic Initiatives Addressed:		3.2, 4.2

Replacement (SERP retirement in 2010, position was eliminated) Growth

1. Provide a rationale for your request.

There are two sub-specialties in the department – Electronics and Electrical Power Systems. The current faculty has a very strong background in Electronics. In order to provide a comprehensive program, support from an expert in Electrical Power systems is needed.

The program has always been offered as an evening only program which discourages women and those who depend on public transportation to enroll. It also limits growth potential. We are adding day classes starting in fall 2014. These sections will be taught by the only full time faculty in the department, as it is very difficult to find adjunct faculty available to teach during the day time. In order to grow our day program, we need another full time faculty.

The Inland Empire (IE) is a hub for the logistics and distribution industry. Recently, Amazon, Target, Kohls and Stater Brothers have added or expanded their warehousing facilities in the area. These new warehouses are fully automated with electronics control systems. These automated warehouses require services of electronics technicians to program, maintain and support the direct operations of these facilities. There is a strong demand for these skills. The division has been in close contact with the systems manager for the Target warehouse and is working on developing internship programs. A full-time faculty member with requisite electrical power systems knowledge will enhance the Electricity/Electronics program, meet the strategic initiatives, and contribute to the overall educational and economic health of the IE.

2. Indicate how the content of the latest Program Efficacy Report and current EMP data support this request How is the request tied to program planning? (*Reference the page number(s) where the information can be found on Program Efficacy.*)

The last Program Efficacy Report was prepared before the program was fully reviewed by our industry partners and faculty with subject matter expertise. We have found that the program and curriculum have been unchanged for over 30 years. The number of students in the program has not grown and has fluctuated by less than 14 % in the last five years. This is not acceptable in a field that is rapidly growing and changing. With updated curriculum, newer equipment and software, the program can grow rapidly and rise to the level that is expected by the community and the industry. WSCH/FTEF has improved in the last five years and is 423, an acceptable

level for a lab intensive program.

Among the challenges and opportunities enumerated within the EMP document are outdated curriculum and equipment. The program is very weak in the area of Electronic Communications. Enhancements in curriculum and equipment are needed. The task of bringing this program from the Vietnam Era to today's standards is so enormous that one faculty cannot do it in an acceptable timeframe. Our students deserve to have the opportunity to study up to date equipment and relevant curriculum that would enhance their skills to find jobs. The addition of a faculty with sufficient content and industry expertise would greatly facilitate the updating process.

According to the EMP document, the number of awarded degrees and certificates within Electricity/Electronics has declined during the past two academic years. The number of degrees and certificate awarded have fallen as a result of section cuts after 2010 (when the second full time faculty retired). With added daytime classes and another full time faculty, we anticipate rapid growth in the number of certificates/degrees awarded.

3. Provide updated or additional information you wish the committee to consider (*for example: regulatory information, compliance, updated efficiency, student success data, or planning, etc.*).

The addition of a full-time faculty member will also allow the program to further incorporate safety into its curriculum. This is especially important for students who endeavor to work within the industry. We have added three OSHA (Occupational Safety and Health Administration) courses to the curriculum. These courses are needed by many students in the CTE field so we are in need of additional faculty. We are also working with the PDC (Professional Development Center) to offer more not-for-credit and for-credit classes at the district so that we can utilize their well-equipped automation lab. The course outline for automation is also being updated to include more advanced level training.

In order for students to succeed in this program, they need guidance and support from a full-time faculty who they have come to know and trust. Adjunct faculty come and go, and by the nature of their work are not able to provide technical counseling and a support network.

4. What are the consequences of not filling this position?

The program will not grow and students will be unable to properly train and qualify for good, high-paying jobs within the IE. The program will languish with outdated curriculum and equipment, and it needs to move rapidly into the 21st century. New specific area expertise is needed to greatly improve the program and to give adequate student support to have the room to grow the program to its true potential. This can only occur with the addition of a full-time faculty with solid electrical power systems expertise.