FACULTY NEEDS ASSESSMENT APPLICATION
Fall 2015

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 2014**
What rating was given?		**Continuation**
# of FT faculty 1	# of Adjuncts 9	Faculty Load: 10.46
Position Requested:		1 Full Time Faculty (Electrical Power Systems)
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/l5oqoxm)		3.2,3.4

Replacement X (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 added day classes beginning fall 2014. These sections have been 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. This has helped increase our student enrollment in the program dramatically. In fact our FTEF rate has shot up to 10.46 which is unprecedented and strongly suggests that a Full time faculty is needed. Therefore, in order to sustain this growth, 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. In addition, Many Electrical outfits are in contact with our department to recruit our students to become part of their apprenticeship pool. California steel has also partnered with us and recruits our students to their internship program with which they will ultimately employ these candidates. So, industry demand is robust. 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 while the program was fully reviewed by our Industry partners and faculty with subject matter expertise. And as curriculum and equipment upgrades were recommended and partially implemented, the number of students in the program has shown an increase thus increasing our FTES load significantly to 10.46 which really demands to have another full time faculty to support the department and course loads. This continues to be a field that is rapidly growing and changing. With added full time faculty, updated curriculum, newer equipment and software, the program can grow even more 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 338, an acceptable level for a lab intensive program.

Among the challenges and opportunities enumerated within the EMP document are still some outdated curriculum and equipment. It has become a real challenge for one full time faculty to implement all the necessary updating that needs to be done and remains an enormous task.

According to the EMP document, the number of awarded degrees and certificates has improved drastically. Nevertheless, it will also require the addition of a new Faculty for the certificates and degrees awarded figures to continue its growth.

3. Provide updated or additional information you wish the committee to consider *(for example, regulatory information, compliance, updated efficiency, student success data, 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 in the process of acquiring new Mechatronics industrial automation trainers that will need to be integrated within our programs and thus will require faculty training to accomplish that. The course outline for automation is also being updated to include more advanced level training to utilize the new equipment. Furthermore, 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?

Current program growth will stagnate and may not continue and students will be unable to properly train and qualify for good, high-paying jobs within the IE. The program will take a much longer time to grow with just one full time faculty to be able to do all of the updates required to bring the program more in line with industry standards. 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