

FACULTY NEEDS ASSESSMENT APPLICATION

Fall 2019

Name of Person Submitting Request:		Tarif Halabi
Program or Service Area:		Electricity/Electronics
Division:		Applied Technology, Transportation, and Culinary Arts
Date of Last Program Efficacy:		Spring 2019 mini Review
What rating was given?		Continuation
# of FT faculty: (2) two	# of Adjuncts (9)	Faculty Load (per semester):
Position Requested:		One Full time Faculty for Electronics and Electricity Accelerated Program and (1) one full time for regular Electronics and Electricity Classes.
Strategic Initiatives Addressed: <u>Strategic Directions + Goals</u>		This request addresses three categories (1, 2 and 3). Access, Institutional Effectiveness & Resource Management, Student Success, and Technology

1. Provide a rationale for your request. (Explain, in detail, the need for this position.)

We have launched our Accelerated Electronics Technology program in which students can complete their certificate in 8 month program is seeing steady growth and is now going to start the third cohort which is actually full with 25 students signed up. This is putting a strain on our faculty and its sustainability will require that we hire a full time Faculty in order to be able to handle this Load and growth. In addition, the anticipated growth of Electronics and Electricity Technology Program demand that technicians/students interact with increasingly sophisticated and highly expensive equipment. We need experience instructors with Engineering background in Electronics and Electricity to achieve such goals.

Second, we will need more instructors to handle our expanding enrollment in our regular as well as Accelerated programs. In addition, the additional Faculty will also support the anticipated dual and concurrent enrollment classes planned to be offered to than 50 high school campuses in Inland Empire area thereby creating an excellent partnership with various high school campuses for their K12 students. The Full time faculty will also help us to position and cover our various short-term courses and non-credit programs recently developed for Electricity and Electronic Courses. The additional instructor is a major contributing factor that can provide a functional environment to facilitate the interaction and required new classes for K12 students and our Electricity/Electronic Programs.

Third, Electronics/Electricity faculty must be able to focus on teaching and be able to transfer the required high demand skills to prepare our students and acquire the required state certificate for Industry related jobs. The plan to offer various short-term courses will open our doors to accommodate more enrollments in the field of Automation, Robotics, Clean Electricity, Autonomous Vehicles, Virtual and Augmented Reality Technology, Space Technologies and more.

Third, Electronics/Electricity faculty must be able to ensure the educational integrity and safety of the classroom. To achieve such goals, we need dedicated full-time faculties that will focus on teaching students, while ensuring a safe classroom environment, as well as instilling student safety.

Fourth, college-wide and Electricity/Electronics-specific accreditation standards demand that students are equipped with the latest technical expertise and skills. While the Lab Assistant focuses on the day-to-day operations of the skills lab, Electronics Full-time faculty can focus on classroom and practical (guided practice) endeavors.

Lastly, the additional will help the SBVC Electricity/Electronics Department to fully (and properly) implement more additional courses in our Regular and Accelerated Program. Our Accelerated Program will save students an enormous amount of time and money and therefore very attractive to students need and will have an excellent impact -to increase our enrollment. While our regular credit and advance non-credit programs also offers an opportunity to those students that are currently working and simply would like to acquire the required skills required by their employers. This is also an excellent opportunity to students and addresses the growing demand of Employers to work on advance and latest Equipment to be competitive in their overall operation.

2. Indicate how the content of the department/program's latest Efficacy Report and/or current EMP supports this request and how the request is tied to program planning. *(Directly reference the relevant information from your latest Efficacy Report and/or current EMP in your discussion.)*

A program goal is to increase our enrollment by having a good partnership to High School, Various Industries and Employers seeking for highly qualified workers in the field of Electricity, Electronics, Computer, Networks, Telecommunications, Automation and Manufacturing. We also need to improve the success rate of students taking Industry Certification Exam. Real world experiences will instill the hands-on knowledge needed by the students to succeed, not only in the laboratory settings, but on the real-world job-related application and passing state licensure exam.

3. Indicate any additional information you want the committee to consider *(for example, course fill rates, regulatory information, compliance, updated efficiency, student success data, planning, etc.)*.

Our Regular and Accelerate classes in Electricity and Electronics requires the use of our sophisticated and expensive high-tech automation equipment made to resemble real-world application as closely as possible. We also have simulation software that we used to teach theory, assessment, technology, and skills. Our full-time instructors will be the major contributing factors that enhances the application and integration of knowledge, skills, and critical thinking required by students. A team work of our Full-time and Lab Assistant allows learners to function in an environment as close as possible to real-world situation and provides them an opportunity to "think on their feet." This request will also help promote and expand our non-credit program since a lot of short-term advance courses can easily be tied up to the continuity of our Accelerated Program for our students to successfully obtain Industry and State related Certification.

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

We will not be able to serve and address the growing demand of students that would like to complete their degree or certificate the soonest possible time. We will not be able to address the Employers major demand in looking for qualified workers that can address the need for the growing technology. As the rapid growth of new technology evolves and developed in the field of Automation, Drones, Virtual and Augmented reality are getting popular in many aspects of education and training, we need highly skilled, experience and expert full time faculties with high level of attention to details, quick assessment skills, and critical thinking to be able to impart all these new growing skills to our students taking Electricity and Electronics Courses. Failure to hire new full-time faculties in Electricity and Electronics Department under Applied Technology Division, San Bernardino Valley College will lose a lot of potential enrollments in our Electricity and Electronics Department.