

#13

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, January 05, 2022 10:57:55 AM
Last Modified: Wednesday, January 05, 2022 11:31:00 AM
Time Spent: 00:33:04
IP Address: 99.43.4.221

Page 1: Classified Position Request Form

Q1

Please enter the following:

Department	Engineering and Physical Science
Position Title	Engineering Lab Technician
Salary Range	\$53,460-\$66,852
Annual Salary at Step B*	\$56,532
Hours/week and # of months (e.g., 10-month, 11-month, 12-month)	40 hours/week, 12 months

Q2

Current goal this position will directly advance/support

Goal 3

Q3

How will this position directly advance/support the goal listed above?

They will help run, maintain, and create an inviting Makerspace so that students and the community may access and used the equipment to explore the world of Engineering both during class and outside the classroom.

Q4**Additional general fund position**

What type of position is being requested?

Q5

Please attach the description for the position classification (contact GCCCD Human Resources to obtain this).

FA21_ENGR_Classified_Job_Description.docx (16.9KB)

Q6

What are the actual duties and responsibilities that are specific to this requested position that you would like to highlight to help the Classified Hiring Priorities Committee understand the need for this position?(200 words or less)

We have acquired 6 3D printers, a CNC mill, and have a variety of older and new smaller pieces of equipment that are currently maintained and ran by me and other faculty members. The technician would be responsible for preparing equipment for labs and equipment for 4 engineering courses, assist students who want to run equipment for either course content or creative exploration, employ safe workshop standards, maintain the equipment, and fabricate designs created by instructors. We currently do not have a lab technician to perform these duties. The equipment we have acquired is highly specialized, and an adjunct faculty member cannot be reasonably expected to know how to operate all the equipment and maintain it. Therefore, as we continue to increase the use of the equipment, it will fall on me to maintain the equipment and train the other faculty on how to use it, using more of my limited time since I am currently the sole full-time faculty member. Additionally, the presence of a lab technician will greatly increase the safety of the lab space and equipment. Currently, when a student wants to use the equipment, I step through using the equipment with the student, discuss the safe practices we should employ, and then observe the student use the equipment. Once they have demonstrated safe use of the equipment, I assist other students. This is a time intensive process, so having a lab technician will increase the number of students we can assist in a class period. Also, by having a lab technician, we will have another set of eyes in the lab to observe and identify unsafe practices in the lab space!

Q7

Please address the following: How are the duties of the requested position currently being performed, if at all? How does the lack of this position impact the program or service area? What impact, if any, have frozen or vacant positions within the department had on services or staff workload? (200 words or less) (Rubric Criteria 1)

Currently faculty members and I are organizing and attempting to maintain the equipment. Instead of us performing preventative maintenance, we fix equipment as it breaks, which is not ideal. Additionally, adjunct faculty must come early to class to setup labs for the students because we do not have lab technician and I am currently the only full-time faculty member. Lastly, the safety standards are currently explained and enforced by the instructor and students. However, a single instructor is responsible for ensuring the safety of 30 students while the students are using highly specialized equipment ranging from AC/DC electronics, devices that operate at hot temperatures, and tools powerful enough to drill/remove metal.

Q8

How has the program/service area changed over the most recent five academic years and/or how is it expected to change within the next five years (i.e. growth, additional services, increased workload and reorganization) that warrants this position? **Please use both quantitative and qualitative data including, but not limited to: enrollment and productivity data, staffing or other studies, surveys, volume of students or employees served, total comp time accrued, number of hourly/intern/volunteer/work-study, and services provided.** (200 words or less) (Rubric Criterion 2)

Enrollment has increased from 224 in FA16 to 305 in SP21, an increase of 36% over the past 5 years. Pre-COVID, we began offering every Engineering course both Fall and Spring Semesters. Now we are offering multiple sections of our sophomore level courses to allow for program growth because in 2018 we had a 100% fill rate in our courses. Additionally, we are hoping for the use of more project-based learning curriculum in our courses and the accessibility of the Makerspace will encourage even further growth in Engineering student enrollment.

Q9

Student Validation and Engagement

Which of the College's strategic priorities will this position most directly support? Note: Selecting more than one strategic goal will not impact the Classified Hiring Priorities Committee rating of the position.

Q10

Please explain how the requested position will support the college strategic priority(ies) identified above. (200 words or less) (Rubric Criterion 3)

Classical instruction in the classroom is lecture heavy. We are moving our curriculum to be more project-based so students can engage in hands-on learning. This requires the use of the specialized equipment we have acquired. It has been an incredibly validating experience watching students complete a project where they fabricate their own designs and see their work become a reality!

Q11

How will the position impact the ability of the program or service area to innovate and meet changing needs? (200 words or less) (Rubric Criterion 3)

With the equipment we have acquired and a lab technician to maintain and operate the equipment, we can fabricate our own teaching aids in addition to creating more project-based curriculum. Want a model of a bridge to demonstrate the effects of a load to the bridge, we can make it! We can even find models for non-engineering courses too, such as 3D scans of human hearts and print them! The technician will allow us to be innovative in our interactions with our students!

Q12

Yes, I have discussed this position request with the Dean or Manager

Please confirm that you have discussed this faculty position request with the dean or manager and that you understand that deans and managers will be providing feedback to help inform the prioritization process.
