

2009 Student Technology Fee Proposal Form

Title of Project:**Dual-Use Workshop Computers for the Student Tech Center**Department/Organization: **Student Technology Center**

Name(s) of Project Applicant(s)

Name **John Farquhar MS 9094**Phone **650-6538**

Name MS

Phone

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Phone

Principal Contact person:

Name **John Farquhar**Phone **650-6538**Amount Requested for project: **\$48,997**Contribution by Requesting Organization: **Security and Dual-boot Software**

Important note: Before completing this form, please read the Proposal Form Instructions located on the STF website:

<http://www.wvu.edu/stf/>

I. Project Abstract

Give an overview of existing environment, and summarize the items being requested. Include a brief explanation as to how the requested technology will improve student access to technological resources and/or enhance the *quality* of the student academic experiences through the use of technology and/or increase the *integration* of technology into the curriculum.

The Student Technology Center, located in Haggard Hall 121 and 122, serves all Western students with daily technology workshops, one-on-one tutoring and drop-in services in addition to providing large-format and color laser printing as well as check-out services for laptops and other computing equipment. Since opening in 2004 the Center has experienced continuous growth. In the academic year of 2007-2008 the Center received nearly 10,000 visits in addition to delivering workshops to 1,700 students and providing 3,140 equipment checkouts.

The workshop teaching space of the Center is roughly half of the overall Center's space and is open to all students 24x7 when not being used for workshops conducted by the Center. This lab is equipped with 16 Dell computers and 5 Apple iMacs where 5 of the PCs and all 5 of the iMacs are configured principally for video editing. All 21 computer systems in this space were purchased through earlier Student Tech Fee proposals going back to 2005.

This proposal seeks to update the Center by replacing the computer systems in the workshop teaching space in addition to replacing two printers that serve each of our two rooms. We are proposing to replace the aging computing systems with iMac dual-boot systems in order to give us the flexibility to teach a full class of 20

individuals on either Windows or Apple-based software. The use of dual-boot systems would increase our current workshop capacity which is either 15 for Windows workshops or just 5 for Apple-based workshops. Just as other Student Tech Centers have successfully moved to dual-boot environments, this technology will give us the opportunity to maximize our limited space and increase access without increasing our labor or other costs. Replacing our slowest computers will also allow us to continue to meet increased demand for the latest video editing applications which require keeping pace with the processing power of newer computers.

Our proposal includes 2 new printers, one each for the two rooms of the Center. The current printers are hand-me-downs from other labs when those labs were upgraded. Finally, this proposal requests the addition of one Mac laptop to be added to the check-out loan pool at the Center.

Costs for ensuring that security is placed on all systems in HH 122 in order to continue to allow for 24x7 access will be picked up by the STC operating budget. And, should there be costs for dual-boot software, the Center will contribute the funds for that purchase as well.

II. Relationship to STF Objectives and Impact upon existing Academic Programs

Describe your proposed project in detail. Tell us how it will provide positive benefits to specific courses or instructional programs.

1. From a **student perspective**:
 - a. How would this project provide additional student access to technological resources?
This project increases the capacity of our Student Tech Center by allowing us to teach up to 20 students in all of the workshops that we teach whether the software requires Windows or Apple operating systems.
 - b. How would this project broaden or enhance the quality of the student's academic experience through the proposed technology?
New systems in the Center would give students working on video or other high-end applications like Photoshop and InDesign a better, faster experience.
 - c. How would this project integrate technology into coursework?
The Student Technology Center solicits faculty involvement through workshops, tutoring and special services. In the academic year of 2007-2008, the Center received more than 350 different faculty requests. Increasingly, we have seen more video projects assigned to students and the Center delivers video editing workshops for these classes on both Windows and Apple software.
2. From a **faculty perspective**, explain how this project will enhance your ability to help students meet their educational goals.

Any faculty member may request workshops, tutoring and other special services from the Center to meet specific educational goals for any Western student. For example, as a faculty member, I may assign

individuals or teams to conduct video interviews or to video-record their fieldwork experiences. Students may learn how to edit their work and transfer it to DVD through workshops or one-on-one assistance in the Center. Overall, faculty can direct their interactions with students toward understanding and applying the content-matter for their course rather than to concern classtime with "technical" issues.

3. Will other departments be involved with this project? If so, please describe.

While no single department is teaming with the Center on this proposal we know that the Center is broadly represented across the curriculum. From statistics that we collect concerning those using our services, students from more than 100 different courses make use of our systems for video editing, as just one example.

4. Has any part of this project previously been funded by STF?

No Yes (Please describe):

All of the items requested for replacement have been funded under previous STF proposals. In addition, the Student Technology Center receives ongoing funding from the Student Tech Fee including a meager amount for maintenance of existing equipment. Our budget does not include the funds to make significant updates. And, there continues to be considerable pressure on our maintenance budget to keep up with the demand of services.

III. Utilization

1. Please list the anticipated number of times and duration per each use, per quarter, that the proposed technology will be used by students.

During the Fall of 2008, the Center offered 46, 80-minute workshops. Eleven of those workshops were for video editing applications. We continue to expand our workshop offerings each quarter. When not scheduled for our workshops, the lab space is open to all students with priority for those who are receiving assistance from Tech Center staff. While the Center is open 60 hours each week, the workshop teaching space is open 24x7 and is frequently at capacity.

IV. Project Budget

This section of the proposal details the estimated cost of the project. Please include costs that will be covered by your department or another source, for ongoing costs such as personnel or operating expenses.

To assist you in preparing your budget, please consult with relevant campus support departments (ATUS, Purchasing, Space Administration, etc.) For more information, see this page on our website: <http://www.wvu.edu/stf/instructions.shtml>

ATUS has developed standard configurations for desktop and laptop PCs and Macs. Your project is not limited by these standards, but these figures may be helpful. Standard configurations can be found on the Student Technology Fee website: <http://www.wvu.edu/stf/instructions.shtml>

Please complete all of the following sections (attach Excel spreadsheet for any additional details).

Item	Quantity	Item Cost	Total
Standard STF iMac	21	1,700	35,700
HP 9050 Printer	2	4,100	8,200
MacBook	1	1,300	1,300
Tax (8.4%)			3,797
Total			48,997

We recognize your proposed budget as an estimate. Final funding for successful projects will be established after through technical review; some costs may need adjusting due to price changes. The STF Committee may impose special conditions may upon a project. See *Sections B.7 & B.9 of the STF Mission Statement* <http://www.wvu.edu/cms/WWU.STF/mission.html>

1. What funding is available from your department or other sources?

The Student Tech Center has a modest budget for equipment maintenance and improvements. In the past, this budget has been used to upgrade and expand the number of computers in the Center as well as to add new services. The Center has been creative in obtaining other equipment for free such as demonstration units from Dell, Gateway, and Apple in addition to re-assigning equipment from ATUS to the Center. The Center has also received funding from ATUS for the purchase of new systems and furniture. In this proposal, we anticipate using the Center's operating budget for the security of the new computing systems as well as the licensing of dual-boot software such as VMware or Parallels.

2. Could this project be divided into discrete elements that could be funded separately?

No Yes Please summarize and prioritize project segments with cost estimate for each segment.

Eleven of the Dell PCs are in much greater need of replacement than the other ten systems and therefore could be funded separately. However, replacing only those 11 systems, while very necessary, would not reach the larger goal of increasing access by having a consistent lab of dual-boot systems.

3. Are lab fees charged for any of the courses that will use this equipment?

No Yes If yes, please note: the total funding requested from the STF must reflect the amount collected from course fees for equipment

replacement and/or equipment acquisition. All proposals asking for course fees will be reviewed by the Academic Budget Office.

V. Impact on Existing Resources

The proposal should address your project's potential impact on existing resources. Special attention should be given to impact on data transmission networks (e.g. sources accessed, networking equipment, etc.), and personnel (e.g. staffing, administrative support, faculty support, etc.).

Any proposal that includes the replacement of computers should specifically address the feasibility and cost effectiveness of upgrading the computers rather than replacing the computers.

1. Describe how existing equipment is used. Contrast this to projected use if your project was funded.

The existing lab equipment has priority use for workshop instruction provided by the Student Tech Center. When workshops are not being delivered, the lab is available to anyone with priority for those receiving Tech Center assistance. Beyond these priorities the lab is available 24x7 for all students.

If the lab were upgraded, we would be able to hold larger workshops, provide greater flexibility to users in terms of the operating system or software they desire, as well as to provide improved performance for systems that are often used for video editing and graphics applications.

2. Is similar equipment or technology available elsewhere on campus—such as the Student Technology Center, Classroom Services, Video Services, Western Libraries, a college lab? If so, please describe why the existing equipment doesn't meet the needs outlined in this proposal.

There are many general university labs on campus. And while the Tech Center does occasionally teach workshops in other labs, the lab adjacent to our service area is the principle location for our workshops. This lab is also configured with peripherals for video editing. We know of no other lab on campus that is planning to use a dual-boot configuration to support both Windows and Apple software.

3. If this project involves the replacement of equipment:

- a. Describe the 'before and after' configuration changes. A spreadsheet reflecting these changes can be attached.

Twenty-one systems reflecting a combination of Apple and Dell PCs would be replaced in addition to replacing two printers and adding a Mac laptop to the loan pool.

- b. Describe the costs and benefits of replacing vs. upgrading (if applicable).

Firstly, the principle goal of providing dual-boot systems for a multi-purpose lab can only be achieved by purchasing new, Intel-based Macintosh computers. Secondly, the processor speed of eleven of the existing computers is the limiting factor for running higher-end software applications. Thirdly, the better ten computers in the lab

would be re-distributed to other parts of the Tech Center, replacing other much-slower PCs and Macs. Finally, the request for printer replacements comes because the printers are frequently out of service due to parts failure.

4. Will this equipment be available to students outside your department?
No Yes

5. If the proposed technology will be used by students outside your department, please describe how they would gain access, how the availability of the equipment will be publicized, the hours/week when the equipment will be available, and any costs that would apply.

Most of the equipment is for the workshop teaching space which is available 24x7 to all students in the highly accessible lab just off of Red Square. The second printer will be located in the Tech Center service area which is open 60 hours each week. Both printers will have print-release stations and will be on the campus PCounter system. The laptop would be added to our checkout system and be available for 2-hour checkout.

The Student Tech Center is a well-publicized lab with the following hours:

Sunday: 4-8 pm

Monday - Thursday: 8am - 8 pm

Friday: 8 am - 4 pm

6. Does this project involve the check-out of equipment to students?

No Yes If yes, please discuss whether or not the Student Technology Center could be assigned this task.

The Mac laptop would be available for checkout through the Student Tech Center.

6. Does the department have adequate operating funds to provide on-going maintenance and support?

No Yes Please describe.

The Student Technology Center has an ongoing maintenance budget of approximately \$10,000 which is used for equipment repair. Any larger projects for the STC must reply upon additional STF awards and matching funds from ATUS.

7. Does the department have adequate personnel funds to provide on-going staff support for this project?

No Yes Please describe,

The Student Technology Center has an ongoing budget of approximately \$50,000 dollars which is used for student technology assistants. ATUS provides managerial and technical support through five permanent positions.

VI. Space and Site Information

This section addresses any space alteration or site preparation necessary for the proposed project. Site alterations include painting, holes in walls, security systems, carpeting, construction, lighting changes, or conversion of a lab or office

Special Note: If this project requires any site preparation, or if this project uses any space not currently under control of the department, a draft proposal must be submitted to Space Administration by **Friday, November 14, 2008**. Space Administration and Facilities Management will conduct a site survey and respond back to you with information concerning project feasibility, cost, and schedule. This information must be included in the final project proposal.

Proposals for projects that involve any site preparation will be considered only after the required site survey by Space Administration and Facilities Management has been completed.

1. Location for installation of equipment or technology.
Haggard Hall 121 and Haggard Hall 122.

2. Is site modification required?

No Yes Please describe. (Electrical, air, painting, lighting, security, network access, etc.)

3. Will this project use space not currently assigned to your department or area?

No Yes Please describe.

VII. Project Schedule

This section describes your overall implementation schedule. Project awards will be announced by the end of spring quarter. It is anticipated that projects would be substantially completed by the end of the calendar year. If there is any site preparation involved, please align your project schedule with the schedule provided by Space Administration and Facilities Management.

Installation is expected to take less than 2 weeks after delivery of the equipment. This is likely to occur during a break between terms.

VIII. Constraints

This section should list any external or internal factors that could affect your project schedule, project objectives, or the project budget (e.g. if external approval is required for curricular changes, or if funding must be received by a certain date).

1. Please describe any constraints to this project.

There are no foreseen constraints to this project.

IX. External Funding

This section must be completed for any **projects over \$100,000**. For project budgets of this scale, the applicant should investigate opportunities for obtaining external funding for all or part of the proposed project.

1. Describe the external organization(s) able to provide funding in support of this project.

Not applicable.

2. Describe the funding cycle for these requests (submission dates, projected award dates).

Not applicable.

3. Indicate the amount of external funding that would be requested.

Not applicable.

4. In cases where joint funding is requested, what will happen if the STF award is made and the external grant is not awarded?

Not applicable.

5. Has a grant proposal already been submitted for all or part of the proposed STF project?

Not applicable.