

Academic Resources and Computing Committee

Proposal for Funding

Due Thursday, April 1, 2004 (4:30 p.m.)

Project Title: Windows Labs Server Upgrades

Project Director: Warren Hill

Department(s): Computer Science

College(s): Applied Science and Technology

E-Mail: whill@weber.edu

Extension: 6304

Other Members of the Project Team: Dave Hart, Nathan Younger

Instructions:

1. Please complete each section in the space provided. The justification section should not exceed two single-spaced typed pages. (An addendum may be attached describing details of specific hardware and/or software that are requested with this proposal.)
2. You are required to obtain the signature of an ARCC representative for your college, indicating that she/he is familiar with the proposal, and can speak to it during funding deliberations.
3. Your department chair's signature is also required, indicating that she/he supports the proposal, and that the proposal is in keeping with departmental goals related to information technology and its applications to the academic mission of the institution. Your Chair's signature also indicates her/his commitment to help support the project financially if so indicated on the budget page.
4. Your dean's signature is also required, indicating that she/he has read and supports the project. Your dean's signature also indicates her/his commitment to help support the project financially if so indicated on the budget page.
5. Your college's computer committee must rank the proposal, and the committee chair's signature is required.
6. For certain projects an IT expert's signature is required. You must contact the appropriate individual if you are implementing a wireless network, multimedia classroom, software/hardware purchase that will require use of a campus server or work with online course software like WebCT Vista or ChiTester. You must give time before the deadline - the recommendation is 3 weeks - for that person to do an evaluation.
7. Submit one copy of the proposal, together with all relevant signatures, by 4:30 p.m., Thursday, April 1, 2004. NOTE: the ARCC no longer requires seventeen copies.
8. You must both email a soft copy and mail a hard copy of the proposal to the chair, David Ferro, MC 2401.

ARCC Representative:

I have read the proposal and discussed it with the Project Director.

ARCC Representative

Comments:

Department Chair:

The Department has reviewed this project within the context of overall information technology planning within the Department. If the budget page indicates financial support from the Department, I agree to commit those funds to this project.

Department Chair

Comments:

College Dean:

I have reviewed this project. If the budget page indicates financial support from the College, I agree to commit those funds to this project.

College Dean

Comments: This project is a critical element in keeping the laboratories that support the Computer Science Department up-to-date and to assure that the college and department has the capability to meet the needs of our students.

College Computer Committee Chair:

This proposed project has been reviewed and discussed by our college's computer committee. It is the consensus of the committee that this proposed project is consistent with information technology goals within the college. Furthermore, after ranking all of the proposals submitted by our college, we rank this proposal in priority as

_____1_____ out of a total of _____1_____ proposals submitted this year.*

*Note: Each proposal must be given a separate ranking; no two proposals may receive the same rank.

College Computer Committee Chair

Comments:

IT Representative:

For certain projects an IT expert's signature is required. You must contact the appropriate individual if you are implementing a

WIRELESS NETWORK (contact Brook Chase at bhchase@weber.edu or x7192),

MULTIMEDIA CLASSROOM (contact Bob King at rking@weber.edu or x6865),

CERTAIN SOFTWARE/HARDWARE purchases that will require use of a campus server or work with online course software like WebCT Vista or ChiTester (contact Ted McGrath at tmcgrath@weber.edu or x7196).

I have read the proposal and discussed it with the Project Director.

IT Representative (printed and signed)

Comments (including status):

Justification

Your proposed project should be described as clearly and succinctly as possible in the spaces provided below. Be sure to review the “Criteria for Funding” document. *The entire justification section should not exceed two single-spaced pages.*

Abstract (project summary):

This project is to provide partial funding to replace the Windows Servers in the Computer Science Department with a server system capable of providing service to the Ogden, Davis, and Salt Lake Community College campuses that would be usable for at least five years without major upgrades.

Objectives and goals of this project:

The goals of this project are to purchase and install a new Windows server system for the Computer Science Department to support the programs and courses offered by the department. This server would provide the following services to the students within the department:

- ✍ Active Directory – Provides user management (login), printing services, server management and group policy management.
- ✍ Terminal Services – Provides remote desktop capabilities for students and labs at the Davis campus and at the campus of Salt Lake Community College.
- ✍ Internet Information Server – Provides students with a web server that allows them to publish web pages related to their courses.
- ✍ Databases – Provides databases such as Oracle, mySQL, and SQL server.

Identify specific courses and/or programs that will directly benefit from this project:

(You may also want to describe how specific courses may be enhanced by this project.)

The following courses, regardless of the campus where they are offered, would be directly supported by this new server system.

| | |
|--|---|
| CS 1020, Intro to Computer Science | CS 1130, Intro to UNIX and C |
| CS 1220, Object Oriented Programming | CS 2550, Data Base Design and Development |
| CS 2650, Comp Architecture | CS 2705, Network Fundamentals |
| CS 3040, Windows Infrastructure | CS 3100, Operating Systems |
| CS 3200, Data Structures | CS 3230, Internet Multimedia Services |
| CS 3350, Distributed Database Arch | CS 3705, Local Area Networking |
| CS 3750, Software Engineering | CS 4280, Computer Graphics |
| CS 4750, Advanced Software Engineering | CS 4780, Object Oriented Windows |

If applicable, describe how this project will help to increase faculty productivity or enhance competency in some area of information technology.

(Please note that ARCC does not support faculty desktop or laptop computers.)

The current server hardware for the Windows labs in the Computer Science Department is over five years old. As such, it is starting to malfunction on a regular basis causing outages in the laboratories that support the above list of courses. Some of the problems that have been occurring on a regular basis include the following:

- ✍ Server system is inadequate for network functions
- ✍ Server system is now incapable of performing the required tasks
- ✍ There are ongoing hardware failures in the server system
- ✍ There are no backup capabilities for disaster recovery

A new server system would eliminate all of the above problems as well as improve the capabilities of the department by adding terminal server capability. Additionally, the above problems are only going to get worse without new hardware.

Describe how the success of this project will be evaluated.

(If reports or publications are anticipated from this project, please indicate such.)

The success of the project will be evaluated by determining how well the new server system operates in performing its required functions. In particular, we will be evaluating how well the terminal server feature works with respect to the students off campus, including those at the Davis campus and at Salt Lake Community College.

Timeline:

(If funded, when will this project be implemented?)

It is planned to purchase and install the new server system this summer (2004) and have it operational in time for fall semester classes.

Budget

Note: Please be as specific as possible regarding requested hardware, software, or other resources (you may include an addendum to describe the hardware). If funds are being committed from other resources, please so indicate.

| Hardware: | ARCC (Requested) | Department (Committed) | College (Committed) | Other (Committed) |
|----------------------------|----------------------------|----------------------------------|-------------------------------|-----------------------------|
| 42 U Rack System | \$2,400 | \$800 | \$1,800 | |
| Domain Controllers | \$8,100 | \$2,800 | \$6,100 | |
| Terminal Server | \$9,500 | \$3,400 | \$7,100 | |
| Hardware Subtotals: | \$20,000 | \$7,000 | \$15,000 | |
| Software: | ARCC (Requested) | Department (Committed) | College (Committed) | Other (Committed) |
| | | | | |
| | | | | |
| Software Subtotals: | | | | |
| Other: | ARCC (Requested) | Department (Committed) | College (Committed) | Other (Committed) |
| | | | | |
| Other Subtotals: | | | | |
| Grand Totals: | \$20,000 | \$7,000 | \$15,000 | |

TOTAL FOR PROJECT: \$42,000 (Sum of all columns)

Additional Resources

Please describe what other resources will be required to implement this project:

(Additional resources may include needs such as Academic Computing technical support or hardware installation through Electronic Services.)

The installation of this server system will be handled by the computer specialists that currently work for the Computer Science Department. There may additional electrical or network lines that will need to be installed but that work will be done by Facilities Management and paid for by the College.