

# The University of Tennessee at Chattanooga Student Technology Fee Funding Request

## Proposal

*Beginning 2005-2006*

**Title: Continue Wireless networking support and expansion**

Unit Submitting Proposal: Network Team, Systems and Networks, Information Technology Division

**Briefly summarize the proposed project.**

This project will expand wireless network access on campus and bring adequate support to existing wireless access.

Wireless networks are operational in the UC and the Library, but there are also many “unofficial” wireless access nodes installed around campus. We live in an increasingly wireless world. Wireless access enhances the ability of students to utilize network resources by providing freedom to move around and by providing network access in areas where wires would cause risks and get in the way. Wireless access also encourages the use of laptops and handheld computers (PDAs, Tablets, etc) by students.

However, without proper management, wireless networks make a fertile ground for computer hacking, eavesdropping, and violating security. Some of the “unofficial” wireless network access points installed around campus have already been the source of troublesome network activity, network outages. State and UT audit require official control of all WLAN access points for adequate security.

The purpose of this project is to continue network support for wireless networking, to convert existing “unofficial” wireless networks to be supported as “official”, and to expand wireless access to areas student use across the campus. A list of locations for new access points is below under Requested Budget.

**Identify the project goals and objectives.** Briefly describe your goals and objectives. Include in the description how the outcomes of the project will improve teaching and learning. Indicate also the anticipated reach of your project. In other words, how many and what type of students will benefit from the successful execution of the proposed funding? How will they benefit?

All students, staff and faculty will benefit that have handheld computers, laptops, or other devices that can use wireless networks. Several departments around campus have found wireless access invaluable in teaching and research settings. The wireless access in the library has proved to be popular. Expanding wireless access will enable UTC to compete with other Universities and Colleges in maintaining up to date technology offerings.

**Describe the method with which you will achieve your goals.** Briefly describe your methodology. Include a calendar of target project dates. That is, when will the major steps in the project begin and end?

The Director of Systems and Networks will coordinate with the Network Manager, the WLAN Network Analyst, CECA, the computer security committee, and the IT Advisory Council to develop policies and procedures related to wireless network use at UTC. The WLAN Network Analyst will work with departments to identify all wireless access on campus and coordinate conversion of existing wireless networks to meet the policies and procedures adopted.

Installation of 23 new WLAN access points will take place through the year. A list of locations for new access points is below under Requested Budget.

The Network Analyst, in conjunction with the Help Desk, Library, UC, and departments utilizing wireless networking, will develop publicity, training, monitoring, and support/troubleshoot the use of wireless networking on campus. This is an ongoing activity.

**How will you evaluate the success of the project?** Describe your evaluation criteria clearly. How will you determine whether the project is successful?

Monitor the utilization of wireless access points and solicit feedback from people using them.

**Previous grant(s):** If you received a Student Technology Fee grant last year, have you submitted your final report?

This is a proposal for the second year. A report will be submitted for the first year at the required time.

**Proposed location:** Describe the proposed location of the equipment, software, etc.

Equipment will be located throughout the campus. The Requested Budget section below includes details of new locations for access points.

**Requested Budget:** Clearly identify one-time costs, such as equipment, shipping, and installation. Clearly identify recurring costs, such as maintenance and support, and the source of the funds to cover the recurring costs.

Network Analyst at annual salary with 32% benefits included for a total cost of \$43,500

Ongoing training for Analyst to maintain and enhance services: \$2,500

10 APs for Student commons/lounge areas (Grote, Holt, Hunter, Fletcher, Fine Arts, EMCS, Crossroads): \$10,000

3 APs for auditorium/lecture halls (Grote, EMCS): \$3,000

6 APs to upgrade the Library: \$6,000

4 APs for Arena: \$4,000

Software for Radius authentication for security: \$3,000

Software and equipment to maintain site map of signal strength and identify unauthorized wireless networks: \$4,000

**Summary** of projected costs

Salaries (if any)	\$ 43,500
Equipment (hardware and software)	\$ 30,000

Complete the following items as appropriate

Installation	\$
Construction/renovation costs	\$
Annual maintenance/support costs	\$ 1,000
Training	\$ 2,500
Recurring costs per year	\$

<b>Total</b> project one-time costs	\$
<b>Estimated</b> recurring costs per year	\$ 77,000

Identify the area(s) responsible for operating and maintaining the equipment.

Network Team, Systems and Networks, Information Technology Division

**Approval** by Dean or Vice Chancellor:\_\_\_\_\_

**Individual** responsible to complete proposal if funded: Richard Gambrell

**Priority** established by Dean or Vice Chancellor:\_\_\_\_\_