

## FY10 ITICC Summer Proposal

Item No.	Qty	Description	Unit \$	Total \$
1	185	Chairs for the IT Labs in Lind 24, EE/CS 3-170 and 4-250, and Civil Eng. 230. This is the half of the labs that did not get new chairs last winter. It has been several years since we have bought chairs for the labs and the chairs have been, to put it mildly, rigorously used. In the past we have been penny-wise and pound foolish. We need high-end chairs in the labs. We replaced 150 chairs 6 months ago and the feed back from students has been very positive.	\$447.36	\$82,761.60
2	3	We have 3 black and white printers that are older than 5 years. The maintenance contracts that we purchase with the printers last 4 years and these printers have begun to frequently jam and cause problems for users. To continue to service the printers would be expensive. The printers have gotten higher usage since we've begun giving the students a print quota per semester so we are going to get a higher capacity printer with better service records with higher volume output.	\$3,180.00	\$9,540.00
3	3	Additional three year maint. contract on the new black and white printers (4 years total).	\$977.00	\$2,931.00
4	2	Color printers to replace the aging color printers in the labs These two printers get heavy use and we need to keep up with student use.	\$1,415.00	\$2,830.00
5	2	Additional three year maint. contract on the new color printers (4 years total).	\$515.00	\$1,030.00
6		One of the largest increases in IT Labs use has been the reservation of labs to be used as classrooms. Since EE/CS 3-166/3-170 was divided and 3-166 given to ECE, the remaining room (3-170) would make a perfect classroom. Classroom Management recommend adding some sound dampening panels, audio equipment, whiteboards, projector and screen, to turn this lab into a usable classroom. This will be a classroom like ME314. It will only be allowed to be reserved for a few classes per semester. It can not be scheduled for every week like EE/CS 2-170, 2-172 and Lind 24		Project total \$32,020
6a	2	Widescreen projector, screen, and amplifier	\$7,500.00	\$15,000.00
6b	12	Acoustic Paneling 48"x48"x2"	\$185.00	\$2,220.00
6c	1	Audio equipment	\$750.00	\$750.00
6d	3	Whiteboards parts/installation	\$1,850.00	\$5,550.00
6e	1	Installation - parts/labor	\$4,850.00	\$4,850.00
6f	1	Installation - electrical	\$3,650.00	\$3,650.00
7	3	The Windows servers are now 5 years old and need to be replaced. We currently have 5 servers, but could use 8 or more for various tasks and redundancy. We propose getting three servers for redundant hardware and using virtualization to create several virtual servers that can do dedicated tasks like license servers, Wininstall, backup server, Active Directory etc. This makes maintenance much easier. We propose SunFire X4440 servers with 4X quad-core processors and 32 GB of RAM	\$6,800.00	\$20,400.00

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8	320	We learned from the Physics department (Graham Allan) about some software that is far better at managing computer software updates/patches than the traditional WSUS or SCCM. This software is called BigFix and we feel it will not only greatly improve security, but reduce staff time which can be used on other projects. One license is required for each Windows computer in IT Labs.	\$24.81	\$7,937.80
9	1	New projector and screen in ME302. The projector is broken and can't be aligned correctly and the screen is over 10 years old and is worn out.	\$7,500.00	\$7,500.00
10	4	We have 8 rack-mounted computers that serve as a computer cluster for several classes that are over 5 years old. We propose to get 4 large servers that we can divide into many virtual machines to meet the varying needs of different classes as those needs change from semester to semester.	\$8,500.00	\$34,000.00
11	1	Equipment rack, KVM, and PDUs for new IT Labs rack-mounted computers. We are out of space for rack-mounted computers and are currently using rack space purchased by the CSE department.	\$3,500.00	\$3,500.00
12	1	UPS for IT Labs equipment. The old UPS we have has bad batteries and needs to be replaced.	\$3,300.00	\$3,300.00
13	15	We have 15 Sun computers that have reached their 4 year life cycle and need replacing. These will be replaced with systems that can run Solaris, Linux or Windows. This will allow us to keep our options open in the future.	\$3,000.00	\$45,000.00
14	1	The current web server for IT Labs is 6 years old. This web server is used to close and reopen over 1500 accounts each semester. In addition we now use it to distribute software/licenses negotiated by IT (like Vista, MS Visual Studio, Matlab, Mathematica, and Ubuntu) to students. In the past the web server has been shared between CSE and IT Labs and we propose to do this again. By using virtual hosts, and splitting the cost between CSE and IT Labs, the Institute of Technology saves on hardware costs, service contracts, power, A/C and other resources in small supply (like space!).	\$3,500.00	\$3,500.00
15	37	We have 37 computers that were purchased with 3-year service contracts. They are still perfectly fine so we would like to extend the service contract for one more year.	\$159.00	\$5,883.00
16	1	The computer we use to distribute / mirror Ubuntu Linux, Open Solaris and other open source software ISOs is extremely old. We would like to get a new server for this. This is different from the web server's function. IT Labs provides a service to the University with its mirror server and it is heavily used by the whole community (i.e., a public service). When a new version of Ubuntu comes out thousands of people download it from the IT Labs mirror. We also use this mirror as part of our installation and update procedure, so we have to have it. Being a public service is just a bonus to the rest of the community.	\$3,500.00	\$3,500.00
17	1	VMware Enterprise. This software is needed to run all the virtual machines on our most critical servers	\$4,000.00	\$4,000.00
18	1	Storage expansion. We need to add to our RAID system for increased storage needs. This will serve the new mirror server as well as increase the database server's storage needs	\$7,000.00	\$7,000.00

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**Total**

**\$276,633.40**