

# FY 2008 Technology Fee Proposal

---

Submitting Organization:

Major Unit: *College of Arts and Sciences*

Department: *Department of Physics and Astronomy*

Contact Person: *Charles Windsor*

E-Mail: *cwindsor@gsu.edu*

Telephone: *1-2279*

1. Project Short Title

<i>5-8 Word Project Title</i>
-------------------------------

<i>127NSC Condensed Matter Computer Lab</i>
---------------------------------------------

2. Total Requested

Fiscal Year 2008
------------------

\$ 6,110
----------

3. Executive Summary

<b>Project Description (three or four sentences)</b>
------------------------------------------------------

<i>This computer lab is for graduate physics students concentrating in Condensed Matter Physics. This lab currently consists of 5 computers. These 5 computers were obtained from previous tech fee awards. They are 5 year old optiplex GX150s and are not adequate for this application. We propose to replace these 5 computers with 5 new workstations. Ports were installed by last years Tech Fee Awards.</i>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

4. Project Description

*Last year we submitted a proposal for 5 computers and 4 network ports for this lab. We were awarded the 4 ports but not the new computers. The computers awarded were surplus tech fee computers. These were 5 year old Dell Optiplex Gx150's (1 Ghz, 20G hard drive). Many of the computers were not working (usually power supply, hard disk, or disk controller failures). The lab currently consists of 5 network ports with 5 year old Tech Fee computers which may or may not be functional.*

5. Record the review numbers assigned by IS&T and Facilities. Their assessments must be included in Sections 16 and 17.

IS&T: <b>IST08-020</b>
------------------------

Facilities: <b>14508-07</b>
-----------------------------

6. Relevance to Regents Guidelines

*This request is made under Regents Guidelines items 1, 2, and 3*

7. Relevance to Strategic Plan(s)

*The purpose of this request is to provide access for students to the usual computer capabilities required by their selected discipline such as: the standard Microsoft Office Suite, Mathematica, Origin Lab's Origin Pro, and web access.*

8. Impact on Students Served

*This lab will be accessible to Physics graduate students 24 hours per day, 7 days per week except when the University is closed. There are currently 40 Physics graduate students.*

9. Justification of Funding Requirements for Fiscal Year 2008

Provide a specific description of the funding requirements for FY 2008 in the Microsoft Excel spreadsheet below. You must use the same terminology as in the Project Description (page 2, #4) to allow each itemized line to be traced back to the items and functionality appearing in the Project Description. Failure to do so will negatively affect consideration of your proposal. Itemize and total the following categories of expense. If necessary, add lines to the table below corresponding to accounting objects of expense.

**Please note that any equipment items less than \$4,999 should be categorized as "supplies."**

Object of Expense	Itemized Descriptions	Quantity	Per unit price	Extended Total
<b>Supplies</b> (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Standard Computers	5	\$1,222.00	\$6,110.00
	Item 2			
	Item 3			
	Item 4			
	Item 5			
	Item 6			
	Item 7			
<b>Equipment</b>	Item 1			\$0.00
	Item 2, etc			
<b>Software</b> (Note: Include Vendor and Product Name.)	Item 1			\$0.00
	Item 2			
	Item 3, etc			
<b>Maintenance or Contractual Services</b>	Item 1			\$0.00
	Item 2, etc			
<b>Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)</b>				
<b>Construction Services</b> (Requires review of Planning & Facilities)	Item 1			\$0.00
	Item 2			
	Item 3, etc			
<b>Network Connections and Infrastructure Costs</b> (Requires review of UCCS)	Item 1			\$0.00
	Item 2			
	Item 3			
	Item 4, etc			
<b>Physical Security</b> (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1			\$0.00
	Item 2			
	Item 3			
	Item 4, etc			
<b>Other Expenses</b> (explain)	Item 1			\$0.00
	Item 2, etc			
<b>Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)</b>				
<b>Staff Salaries</b>	Item 1			\$0.00
	Item 2, etc			
<b>Fringe Benefits</b>	Item 1			\$0.00
	Item 2, etc			
		<b>Hours/wk</b>	<b>Hourly Rate</b>	
<b>Student Assistant Salaries</b>	Item 1			\$0.00
	Item 2, etc			
<b>Graduate Student Assistant Salaries</b>	Item 1			\$0.00
	Item 2, etc			
<b>TOTAL</b>				<b>\$6,110.00</b>

### 10. Consequences of Partial Funding

State what the consequences would be on the effectiveness and viability of the proposal if it were only funded in FY 2008 at the following percentages of the requested total:

**Only 75% funded:** State specifically whether or not the proposed project would remain viable. If the project would remain viable, itemize and total the following categories of expense at 75% funding in the Microsoft Excel spreadsheet below.

<b>Supplies</b> (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Standard Computers		4	\$1,222.00	\$4,888.00
	Item 2				
	Item 3				
	Item 4				
	Item 5				
	Item 6				
	Item 7				
<b>Equipment</b>	Item 1				\$0.00
	Item 2, etc				
<b>Software</b> (Note: Include Vendor and Product Name.)	Item 1				\$0.00
	Item 2				
	Item 3, etc				
<b>Maintenance or Contractual Services</b>	Item 1				\$0.00
	Item 2, etc				
<b>Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)</b>					
<b>Construction Services</b> (Requires review of Planning & Facilities)	Item 1				\$0.00
	Item 2				
	Item 3, etc				
<b>Network Connections and Infrastructure Costs</b> (Requires review of UCCS)	Item 1				\$0.00
	Item 2				
	Item 3				
	Item 4, etc				
<b>Physical Security</b> (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1				\$0.00
	Item 2				
	Item 3				
	Item 4, etc				
<b>Other Expenses</b> (explain)	Item 1				\$0.00
	Item 2, etc				
<b>Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)</b>					
<b>Staff Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>Fringe Benefits</b>	Item 1				\$0.00
	Item 2, etc				
			<b>Hours/wk</b>	<b>Hourly Rate</b>	
<b>Student Assistant Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>Graduate Student Assistant Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>TOTAL</b>					<b>\$4,888.00</b>

**Only 50% funded:** State specifically whether or not the proposed project would remain viable. If the project would remain viable, itemize and total the following categories of expense at 50% funding in the Microsoft Excel spreadsheet below.

Object of Expense	Itemized Descriptions		Quantity	Per unit price	Extended Total
<b>Supplies</b> (Note: PCs under \$5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Standard Computers		2	\$1,222.00	\$2,444.00
	Item 2				
	Item 3				
	Item 4				
	Item 5				
	Item 6				
	Item 7				
<b>Equipment</b>	Item 1				\$0.00
	Item 2, etc				
<b>Software</b> (Note: Include Vendor and Product Name.)	Item 1				\$0.00
	Item 2				
	Item 3, etc				
<b>Maintenance or Contractual Services</b>	Item 1				\$0.00
	Item 2, etc				
<b>Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for ... space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)</b>					
<b>Construction Services</b> (Requires review of Planning & Facilities)	Item 1				\$0.00
	Item 2				
	Item 3, etc				
<b>Network Connections and Infrastructure Costs</b> (Requires review of UCCS)	Item 1				\$0.00
	Item 2				
	Item 3				
	Item 4, etc				
<b>Standard</b> Costs normally should not exceed 2.5% of Total Requested.)	Item 1				\$0.00
	Item 2				
	Item 3				
	Item 4, etc				
<b>Other Expenses</b> (explain)	Item 1				\$0.00
	Item 2, etc				
<b>Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)</b>					
<b>Staff Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>Fringe Benefits</b>	Item 1				\$0.00
	Item 2, etc				
			<b>Hours/wk</b>	<b>Hourly Rate</b>	
<b>Student Assistant Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>Graduate Student Assistant Salaries</b>	Item 1				\$0.00
	Item 2, etc				
<b>TOTAL</b>					<b>\$2,444.00</b>

## 11. Standard Dollar Amounts

In constructing the budgetary requests in Sections 9 and 10 above, computer workstations should be budgeted at the following levels:

The following desktop systems are the standard technology for Student Technology Fee purposes. Desktop systems exceeding this capability and price must be specifically justified:

1. Windows/Intel processors workstation, including monitor: \$1,222
2. Apple Macintosh models: \$1,376

The following types of equipment require justification over and above desktop systems. The following prices and configurations are standard for these types of equipment. Any deviation from these standards must be further justified:

1. Windows/Intel processors laptop: \$1,749
2. Apple Macintosh laptop: \$1,382
3. Personal Digital Assistant (PDA): \$ 472
4. Tablet computer: \$1,984

*Will purchase suitable Dell OptiPlex computers and monitors as specified in Attachment 2 of this document.*

## 12. Standard Replacement Thresholds

All equipment being requested due to obsolescence or inadequacy of existing equipment must be itemized on the form provided in Attachment 3: Itemization of Equipment to be Replaced. Each item for which replacement funding is being requested will be in one of the following two categories:

*5 computers are to be replaced. See Attachment 3: Itemization of Equipment to be Replaced*

## 13. Prerequisite, Non-Technology Fee Funding

N/A

## 14. Matching Funds

N/A

## 15. Staffing and Other Support Availability

*The Department Technology Coordinator will provide software and hardware maintenance required by this lab. This staff will ensure all new equipment meets security requirements on campus as well as maintain them throughout their life cycle.*

## 16. Space Availability and Impact on Facilities

### **For CBSAC and Planning & Facilities Use Only:**

CBSAC and Planning & Facilities Assessment of Space Availability and Impact on Facilities (this information is also transmitted to [techfee@gsu.edu](mailto:techfee@gsu.edu)):

**This project has no impact on facilities.**

## 17. Impact on Computing/Networking/Information Security Infrastructure

### **For IS&T Use Only:**

IS&T Assessment of Network/Computing/Information Security Infrastructure:

Information Security Review (Tammy Clark):

Impact: Yes

Assessment: Ensure that AV/ISS Proventia desktop software is installed on all computers—contact [security@gsu.edu](mailto:security@gsu.edu) for instructions.

Wireless and Network Ports Review (Mark Roberson):

Impact: Yes, minimal impact expected increased bandwidth utilization expected from higher performing computers.

Assessment: Assumes reuse of all existing network ports... any additional ports should be priced at \$410 per.

Server Connections (Charles Hollingsworth, Tammy Clark, Keith Campbell):

Impact: No, (No-CWH), No impact - KEC

Assessment:

External Connections (Charles Hollingsworth):

Impact: (No-CWH)

Assessment:

DVR Installations (Mark Roberson, Tammy Clark, Charles Hollingsworth):

Impact: No, (No-CWH)

Assessment:

Lab and Classroom Configurations (Joe Amador):

Impact: Yes/No NO

Assessment: IS&T have negotiated bulk pricing packages for Dell Optiplex 745 which should be used for this project if funded.

## 18. Physical Security Needs

N/A

## 19. Post-Project Assessment Criteria

*Purchase and install the computers Fall Semester – 2007*

## 20. Review and Acknowledgements

Attach electronic notes or documentation showing that the following units or administrators have reviewed or acknowledged this proposal:

- Matching funds commitment from appropriate fiscal officer

**GEORGIA STATE UNIVERSITY**  
**Student Technology Fee FY 2008**  
**Itemization of Equipment to be Replaced**  
**Due to Obsolescence or Inadequacy**

**Unit:** Department of Physics and Astronomy

**Proposal Submitter:** Charles Windsor

**Proposal/Award Title:** 127NSC Condensed Matter Computer Lab

If this proposal includes a request to replace old equipment with newer equipment due to obsolescence or inadequate performance, please itemize the specific machines or software to be replaced.

Station Number	GSU ID	Serial No.	Current Room Location	Make	Model	CPU	Mhz	Manu. Date
1	505271	Jyv2z01	127nsc	Dell	Optiplex Gx150	Pentium III	1Ghz	Oct-01
2	505276	2gw2z01	127nsc	Dell	Optiplex Gx150	Pentium III	1Ghz	Oct-01
3	505292	14w2z01	127nsc	Dell	Optiplex Gx150	Pentium III	1Ghz	Oct-01
4	505134	5cv2z01	127nsc	Dell	Optiplex Gx150	Pentium III	1Ghz	Oct-01
5	208565	4rsrf01	127nsc	Dell	Dimension 4100	Pentium III	500	Not known