2010/11 Survey on Research Facilities & Infrastructure at Stony Brook University

University Senate Research Committee

Report 8/2011

2010/11 Committee:

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Introduction

In the second half of November 2010, the Research Committee of the University Senate conducted an online survey of 2700 faculty at Stony Brook on research infrastructure and facilities at the campus. There were 385 responses during the 10-day window of the survey.

The Committee wishes to thank all of the faculty who responded. The survey would not have been possible without the technical assistance of Ying Xiong from Teaching, Learning and Technology (TLT). Nancy Daneau, Deputy to the Vice President for Research, provided needed support for the Committee's work in all phases of the survey.

The Committee mourns the passing of Dr. John H. Marburger III, Vice President for Research, who suggested the idea of the present survey as a follow-up to the 2009/10 survey on faculty research, and who has supported the Committee's work with his genuine interest, advice, and encouragement.

It is hoped this survey will quantify to some extent faculty perceptions of the research infrastructure and facilities at Stony Brook. It is also hoped that this survey and its recommendations will be useful in providing guidance for strategic planning of improvements and maintenance of Stony Brook's research infrastructure and facilities.

Recommendations

A) The following problem areas were frequently mentioned by survey respondents and should be addressed to the extent possible:

Physical Plant

- 1) Poor physical condition of buildings.
- 2) Electric power (reliability and quality).
- 3) Climate control for laboratories, offices and library.
- 4) Lack of laboratory space.
- 5) Renovations and repairs to laboratories, offices and library facilities are prohibitively expensive and take too long.

Equipment and Infrastructure

- 1) Need for more shared equipment and core facilities.
- 2) Equipment upgrades (repairs, maintenance and insurance).
- 3) Computers (supplies and upgrades: particularly for Humanities, Social Sciences and Fine Arts).

Support Services

- 1) Insufficient janitorial services.
- 2) Insufficient security (Laboratories, offices and library).
- **B)** Deficiencies in buildings described in this report's tabular data should be addressed to the extent possible.

Additional Specific Recommendations

- **C)** Increase use of direct costs (IFR) or indirect costs by colleges and departments to support research infrastructure needs.
- D) Encourage strategic planning between the Office of the Vice President of Research and the Office of Facilities and Services on issues of research infrastructure.
- **E)** Facilitate opportunities and create/find space for interdisciplinary collaborations.
- **F)** Have Property Control maintain a highly accessible, web-based list of surplus equipment across the university.

Tabular data

- page 5 Can you cite cases where physical plant failures have affected research?
- **page 6** How much laboratory space do you have excluding office space?
- **page 7** Are you satisfied with your current laboratory/research space?
- page 8 Does your research space have sufficient HVAC?
- **page 9** Does your research space have sufficient electric capability?
- **page 10** Does your research space have sufficient gas supply?
- **page 11** Does your research space have sufficient waste management/janitorial services?
- page 12 How important for your research is it to have back up power?
- page 13 How secure is your laboratory and office from theft?
- **page 14** How would you rate the quality of (lab) construction/renovations?
- page 15 Are data links on campus and to off-campus sites adequate in transmission rate?
- page 16 Do you have easy access to teleconferencing and smart conference facilities?

| Building | total # of answers | # Yes |
|--------------------------------------|-----------------------|----------|
| HSC/Hospital | 78 | 32% |
| Math/Physics Bldg. | 26 | 38% |
| Social and Behavioral Sciences (SBS) | 19 | 16% |
| Humanities Bldg. | 10 | 0% |
| Life Sciences Bldg. | 22 | 73% |
| Light Engineering Bldg | 7 | 0% |
| Staller Center for the Arts | 7 | 43% |
| Harriman Hall | 9 | 11% |
| Computer Science Bldg | 8 | 50% |
| SOMAS Bldg. | 10 | 100% |
| Chemistry Bldg. | 9 | 56% |
| Psychology Bldgs. | 10 | 40% |
| Earth and Space Sciences Bldg. (ESS) | 11 | 45% |
| Library, Frank Melville Jr. Memorial | 17 | 6% |
| Engineering Bldg. | 1 | 0% |

Can you cite cases where physical plant failures have affected research?

| Building | total # of ans. | <100 sq ft | 100- 200 sq ft | 201- 500 sq ft | 501- 1000 sq ft | >1000 sq ft |
|--------------------------------------|-----------------------|---------------|----------------------|----------------------|-----------------------|----------------|
| HSC/Hospital | 72 | 43% | 11% | 11% | 21% | 14% |
| Math/Physics Bldg. | 26 | 58% | 8% | 8% | 12% | 15% |
| Social and Behavioral Sciences (SBS) | 14 | 50% | 21% | 14% | 7% | 7% |
| Humanities Bldg. | 5 | 40% | 20% | 0% | 0% | 40% |
| Life Sciences Bldg. | 22 | 9% | 9% | 18% | 41% | 23% |
| Light Engineering Bldg | 7 | 29% | 0% | 57% | 0% | 14% |
| Staller Center for the Arts | 5 | 60% | 0% | 20% | 20% | 0% |
| Harriman Hall | 8 | 88% | 13% | 0% | 0% | 0% |
| Computer Science Bldg | 8 | 0% | 13% | 63% | 13% | 13% |
| SOMAS Bldg. | 10 | 0% | 0% | 50% | 50% | 0% |
| Chemistry Bldg. | 11 | 9% | 0% | 9% | 36% | 45% |
| Psychology Bldgs. | 10 | 0% | 0% | 10% | 80% | 10% |
| Earth and Space Sciences Bldg. (ESS) | 11 | 36% | 18% | 9% | 27% | 9% |
| Library, Frank Melville Jr. Memorial | 9 | 78% | 11% | 0% | 0% | 11% |
| Engineering Bldg. | 1 | 0% | 0% | 0% | 100% | 0% |

How much laboratory space do you have excluding office space?

Are you satisfied with your current laboratory/research space?

| Building | total # of ans. | # No |
|--------------------------------------|-----------------------|------|
| HSC/Hospital | 77 | 26% |
| Math/Physics Bldg. | 26 | 23% |
| Social and Behavioral Sciences (SBS) | 18 | 17% |
| Humanities Bldg. | 9 | 0% |
| Life Sciences Bldg. | 23 | 26% |
| Light Engineering Bldg | 7 | 0% |
| Staller Center for the Arts | 7 | 43% |
| Harriman Hall | 10 | 20% |
| Computer Science Bldg | 8 | 50% |
| SOMAS Bldg. | 10 | 50% |
| Chemistry Bldg. | 11 | 18% |
| Psychology Bldgs. | 10 | 0% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 30% |
| Library, Frank Melville Jr. Memorial | 15 | 13% |
| Engineering Bldg. | 1 | 100% |

Does your research space have sufficient HVAC?

| Building | total # of ans. | # No |
|--------------------------------------|-----------------------|------|
| | | - |
| HSC/Hospital | 71 | 17% |
| Math/Physics Bldg. | 25 | 12% |
| Social and Behavioral Sciences (SBS) | 15 | 13% |
| Humanities Bldg. | 8 | 0% |
| Life Sciences Bldg. | 22 | 27% |
| Light Engineering Bldg | 7 | 14% |
| Staller Center for the Arts | 5 | 60% |
| Harriman Hall | 9 | 11% |
| Computer Science Bldg | 8 | 63% |
| SOMAS Bldgs. | 10 | 70% |
| Chemistry Bldg. | 11 | 18% |
| Psychology Bldgs. | 9 | 44% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 20% |
| Library, Frank Melville Jr. Memorial | 15 | 13% |
| Engineering Bldg. | 1 | 100% |

Does your research space have sufficient electric capability?

| Building | total # of ans. | # No |
|--------------------------------------|-----------------------|------|
| | | |
| HSC/Hospital | 73 | 15% |
| Math/Physics Bldg. | 24 | 0% |
| Social and Behavioral Sciences (SBS) | 14 | 0% |
| Humanities Bldg. | 8 | 0% |
| Life Sciences Bldg. | 23 | 17% |
| Light Engineering Bldg | 7 | 0% |
| Staller Center for the Arts | 5 | 20% |
| Harriman Hall | 9 | 0% |
| Computer Science Bldg | 8 | 38% |
| SOMAS Bldgs. | 10 | 40% |
| Chemistry Bldg. | 11 | 0% |
| Psychology Bldgs. | 9 | 22% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 30% |
| Library, Frank Melville Jr. Memorial | 15 | 0% |
| Engineering Bldg. | 1 | 100% |

Does your research space have sufficient gas supply?

| Building | total # of ans. | # No |
|--------------------------------------|-----------------------|------|
| HSC/Hospital | 73 | 5% |
| Math/Physics Bldg. | 24 | 0% |
| Social and Behavioral Sciences (SBS) | 14 | 0% |
| Humanities Bldg. | 8 | 0% |
| Life Sciences Bldg. | 22 | 9% |
| Light Engineering Bldg | 7 | 0% |
| Staller Center for the Arts | 5 | 0% |
| Harriman Hall | 9 | 0% |
| Computer Science Bldg | 8 | 0% |
| SOMAS Bldgs. | 10 | 40% |
| Chemistry Bldg. | 11 | 18% |
| Psychology Bldgs. | 9 | 0% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 20% |
| Library, Frank Melville Jr. Memorial | 15 | 0% |
| Engineering Bldg. | 1 | 0% |

Does your research space have sufficient waste management and janitorial services?

| Building | total # of | |
|--------------------------------------|---------------|------|
| | ans. | # No |
| HSC/Hospital | 73 | 12% |
| Math/Physics Bldg. | 24 | 38% |
| Social and Behavioral Sciences (SBS) | 15 | 40% |
| Humanities Bldg. | 8 | 13% |
| Life Sciences Bldg. | 23 | 26% |
| Light Engineering Bldg | 7 | 43% |
| Staller Center for the Arts | 5 | 0% |
| Harriman Hall | 10 | 30% |
| Computer Science Bldg | 8 | 38% |
| SOMAS Bldgs. | 10 | 50% |
| Chemistry Bldg. | 11 | 73% |
| Psychology Bldgs. | 9 | 56% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 30% |
| Library, Frank Melville Jr. Memorial | 15 | 20% |
| Engineering Bldg. | 1 | 100% |

How important for your research is it to have back up power?

| Building | total # of ans. | critical | important | not important or N/A |
|--------------------------------------|-----------------------|----------|-----------|----------------------------|
| HSC/Hospital | 76 | 37% | 26% | 37% |
| Math/Physics Bldg. | 26 | 8% | 54% | 38% |
| Social and Behavioral Sciences (SBS) | 15 | 0% | 27% | 73% |
| Humanities Bldg. | 8 | 0% | 13% | 88% |
| Life Sciences Bldg. | 23 | 65% | 30% | 4% |
| Light Engineering Bldg | 7 | 14% | 43% | 43% |
| Staller Center for the Arts | 6 | 17% | 33% | 50% |
| Harriman Hall | 10 | 10% | 20% | 70% |
| Computer Science Bldg | 8 | 38% | 25% | 38% |
| SOMAS Bldgs. | 10 | 70% | 20% | 10% |
| Chemistry Bldg. | 11 | 27% | 55% | 18% |
| Psychology Bldgs. | 10 | 20% | 10% | 70% |
| Earth and Space Sciences Bldg. (ESS) | 10 | 30% | 50% | 20% |
| Library, Frank Melville Jr. Memorial | 17 | 6% | 12% | 82% |
| Engineering Bldg. | 1 | 100% | 0% | 0% |

How secure is your laboratory and office from theft?

| Building | total # of answers (applicable) | insecure |
|--------------------------------------|---------------------------------------|----------|
| HSC/Hospital | 62 | 39% |
| Math/Physics Bldg. | 24 | 42% |
| Social and Behavioral Sciences (SBS) | 9 | 11% |
| Humanities Bldg. | 2 | 0% |
| Life Sciences Bldg. | 22 | 18% |
| Light Engineering Bldg | 7 | 14% |
| Staller Center for the Arts | 5 | 20% |
| Harriman Hall | 8 | 25% |
| Computer Science Bldg | 7 | 43% |
| SOMAS Bldgs. | 10 | 50% |
| Chemistry Bldg. | 11 | 27% |
| Psychology Bldgs. | 10 | 10% |
| Earth and Space Sciences Bldg. (ESS) | 9 | 0% |
| Library, Frank Melville Jr. Memorial | 10 | 50% |
| Engineering Bldg. | 1 | 0% |

| Building | total # of ans. (w/ experienc e only) | Excell ent | Fair | Good | Poor |
|--------------------------------------|--|---------------|------|------|------|
| HSC/Hospital | 48 | 8% | 54% | 29% | 8% |
| Math/Physics Bldg. | 15 | 20% | 20% | 20% | 40% |
| Social and Behavioral Sciences (SBS) | 4 | 0% | 100% | 0% | 0% |
| Humanities Bldg. | 1 | 0% | 100% | 0% | 0% |
| Life Sciences Bldg. | 21 | 24% | 43% | 29% | 5% |
| Light Engineering Bldg | 3 | 0% | 67% | 33% | 0% |
| Staller Center for the Arts | 4 | 0% | 25% | 0% | 75% |
| Harriman Hall | 4 | 0% | 0% | 50% | 50% |
| Computer Science Bldg | 8 | 25% | 25% | 0% | 50% |
| SOMAS Bldgs. | 7 | 0% | 43% | 43% | 14% |
| Chemistry Bldg. | 8 | 13% | 25% | 63% | 0% |
| Psychology Bldgs. | 5 | 0% | 60% | 20% | 20% |
| Earth and Space Sciences Bldg. (ESS) | 9 | 0% | 44% | 33% | 22% |
| Library, Frank Melville Jr. Memorial | 4 | 0% | 75% | 0% | 25% |
| Engineering Bldg. | 1 | 0% | 100% | 0% | 0% |

How would you rate the quality of (lab) construction/renovations?

Are data links on campus and to off-campus sites adequate in data transmission rate?

| Building | total # of ans. (Y/N) | #No |
|--------------------------------------|-----------------------------|-------|
| HSC/Hospital | 47 | 17 % |
| Math/Physics Bldg. | 18 | 17 % |
| Social and Behavioral Sciences (SBS) | 11 | 36 % |
| Humanities Bldg. | 2 | 0 % |
| Life Sciences Bldg. | 15 | 33 % |
| Light Engineering Bldg | 4 | 25 % |
| Staller Center for the Arts | 2 | 50 % |
| Harriman Hall | 6 | 17 % |
| Computer Science Bldg | 6 | 50 % |
| SOMAS Bldgs. | 7 | 14 % |
| Chemistry Bldg. | 7 | 29 % |
| Psychology Bldgs. | 8 | 13 % |
| Earth and Space Sciences Bldg. (ESS) | 9 | 33 % |
| Library, Frank Melville Jr. Memorial | 10 | 40 % |
| Engineering Bldg. | 1 | 100 % |

Do you have easy access to teleconferencing and smart conference facilities?

| Building | total # of ans. (applic able) | No |
|--------------------------------------|--|------|
| HSC/Hospital | 40 | 55% |
| Math/Physics Bldg. | 15 | 53% |
| Social and Behavioral Sciences (SBS) | 10 | 100% |
| Humanities Bldg. | 4 | 25% |
| Life Sciences Bldg. | 15 | 80% |
| Light Engineering Bldg | 2 | 100% |
| Staller Center for the Arts | 4 | 25% |
| Harriman Hall | 4 | 50% |
| Computer Science Bldg | 7 | 86% |
| SOMAS Bldgs. | 8 | 38% |
| Chemistry Bldg. | 3 | 67% |
| Psychology Bldgs. | 8 | 50% |
| Earth and Space Sciences Bldg. (ESS) | 9 | 33% |
| Library, Frank Melville Jr. Memorial | 11 | 73% |
| Engineering Bldg. | 1 | 0% |

Appendices

- page 18 Occupancy of Buildings
- **page 19** Printout of online-survey questions

Building Occupancies (tenure-track/tenured faculty)*

| Building | # |
|-------------------|-----|
| HSC/Hospital | 266 |
| Math/Physics | 103 |
| SBS | 99 |
| Humanities | 60 |
| Life Sciences | 52 |
| Light Engineering | 44 |
| Staller Center | 39 |
| Harriman | 37 |
| Computer Science | 35 |
| SOMAS buildings | 31 |
| Chemistry | 30 |
| Psychology A&B | 30 |
| ESS | 24 |
| Melville | 19 |
| Old Engineering | 14 |

* data based on OVPR spreadsheet "faculty headcount per dept.xlsx" and university webpages (to identify location of departments)



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Research Facilities/Infrastructure Survey

Dear Colleague,

As you may recall, some months ago the University Senate's Research Committee gathered your input on important matters concerning Research at our University. Your responses were carefully analyzed and condensed into recommendations, to which Vice President for Research Dr. John H. Marburger, III has provided an official response (see http://www.stonybrook.edu/research/). Moreover, the University Senate has approved a resolution that resulted from the survey.

Based on your input and discussions with the OVPR, we are now conducting a follow-up survey specifically about the state of the University's research facilities and infrastructure. The survey aims to evaluate the current state of infrastructure and conditions under which research is performed at the University, and to identify pressing needs.

The survey is anonymous and should not take more than 10 to 15 minutes of your time. It will be open for the next 10 days.

Please take the time to respond. Your voice is important.

Sincerely,

University Senate Research Committee

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Affiliation

1. What is your affiliation?*

-- Please Select --

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What's your primary department?*
 Please Select --

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CEAS

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What's your primary department?*
 -- Please Select --



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School of Medicine

4. What's your primary department?*

-- Please Select --

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Stony Brook Buildings

If needed, please consult the <u>campus map</u>.

Which building is your research primarily conducted in?*
 -- Please Select --



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Southampton Buildings

If needed, please consult the <u>campus map</u>.

Which building is your research primarily conducted in? *
 -- Please Select --

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More About Yourself

- 7. What type of research do you conduct (check all that apply)?
 - Basic
 - Applied
 - Clinical
 - Translational
 - Other, please specify
- 8. What is your highest degree?
 - Masters or equivalent
 - Ph.D. or equivalent
 - M.D. or equivalent
 - Other, please specify

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Note: In answering the following questions please consider only your experiences over the past five years.

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Personnel and Services

- 9. Is there an administrative structure in your department (i.e. research director/administrator) to assist in research activities?
 - Yes
 - No
 - Don't know.
- 10. How do you rate responsiveness to breakdowns/maintenance of your research equipment?
 - Excellent
 - Good
 - Fair
 - Poor
 - Not applicable
- 11. How responsive is the Dept. of Information Technology (DoIT) for your computing needs?
 - Excellent
 - Good
 - Fair
 - Poor
 - Not applicable
- 12. Are the services of the shops and commissaries on campus sufficient to meet your needs for fabrication and repair of research equipment?
 - Yes
 - No
 - Not applicable
- 13. Are the facilities to support research involving human subjects sufficient for your research needs?
 - Yes
 - No
 - Not applicable

14. Are the facilities to support research involving animals sufficient for your research needs?

- Yes
- No
- Not applicable

Expensive/Fair/ Inexpensive

15. If applicable, please rate any of the following core facilities that you use.

| Excellent/Good/ Fair/Poor | By Services Provided | By Cost | Willing to pay more for the use of the facility in order to keep to operating? |
|--------------------------------|-------------------------|---------------|--|
| Bioinformatics Facility | Please select | Please select | Please select |
| Biostatistical Consulting Core | Please select | Please select | Please select |
| | | | |

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| Call Culture (Lubridarea Facility) | | | |
|--|---------------|---------------|---------------|
| Cell Culture/Hybridoma Facility, Microbiology | Please select | Please select | Please select |
| Central Microscopy Imaging Center | Please select | Please select | Please select |
| Division of Laboratory Animal Resources | Please select | Please select | Please select |
| DNA Microarray Facility | Please select | Please select | Please select |
| DNA Sequencing Facility | Please select | Please select | Please select |
| Flow Cytometry Laboratory | Please select | Please select | Please select |
| Genomics Core Facility | Please select | Please select | Please select |
| Imaging Center | Please select | Please select | Please select |
| Materials Characterization Laboratory | Please select | Please select | Please select |
| Micro Computed Tomography Facility | Please select | Please select | Please select |
| Office of Clinical Trials | Please select | Please select | Please select |
| Proteomics Center | Please select | Please select | Please select |
| Rapid Prototyping | Please select | Please select | Please select |
| University Nuclear Magnetic Resonance Center | Please select | Please select | Please select |
| | | | |

16. If you use any other centralized facilities that are not listed above, please add and rate them here.

| | Please specify | By Services Provided | By Cost | Willing to pay more for the use of the facility in order to keep it operating? |
|------------|----------------|-------------------------|---------------|--|
| Facility1 | | Please Select | Please Select | Please Select |
| Facility2 | | Please Select | Please Select | Please Select |
| Facility3 | | Please Select | Please Select | Please Select |
| Facility4 | | Please Select | Please Select | Please Select |
| Facility5 | | Please Select | Please Select | Please Select |
| Facility6 | | Please Select | Please Select | Please Select |
| Facility7 | | Please Select | Please Select | Please Select |
| Facility8 | | Please Select | Please Select | Please Select |
| Facility9 | | Please Select | Please Select | Please Select |
| Facility10 | | Please Select | Please Select | Please Select |

17. Are you aware that there is insurance coverage for research equipment?

Yes

00

- No
- Not applicable

18. Feel free to provide any additional information regarding the questions above.



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Physical Plant

- 19. Can you cite cases where physical plant failures have affected research?
 - Yes (please explain below)
 - No
 - Not applicable
- 20. How much laboratory space do you have excluding office space?
 - Less than 100 sq feet
 - 100-200 sq feet
 - 201-500 sq feet
 - 501-1000 sq feet
 - more than 1000 sq feet
- 21. Are you satisfied with your current laboratory/research space?
 - Yes
 - No (please explain below)
 - Not applicable
- 22. Does your research space have sufficient

| | Yes | No | Not applicable |
|--|-----|---------|-------------------|
| HVAC | 0 | 0 | \odot |
| Electric capability | 0 | \odot | \odot |
| Gas supply | 0 | \odot | 0 |
| Waste management and janitorial services | 0 | 0 | 0 |

- 23. Is there sufficient space in the incubator for commercialization purposes?
 - Yes
 - No
 - Not applicable
- 24. How important for your research is it to have back up power?
 - Critical
 - Important
 - Not important
 - Not applicable
- 25. How secure is your laboratory and office from theft? Page 24 of 28

- Secure
- Not secure (please explain below)
- Not applicable

26. How would you rate the quality of (lab) construction/renovations?

- Excellent
- Good
- Fair
- Poor (please explain below)
- No experience

27. Are bids for lab renovation competitive (do they represent a hardship in terms of time and expense)?

- Competitive
- Not competitive (please explain below)
- No experience
- 28. Feel free to explain your responses to the previous Physical Plant questions above.

| Physical plant failures | |
|--|--|
| Physical plant failures | |
| Lab space satisfaction | |
| HVAC | |
| | |
| Electric capability | |
| Gas supply | |
| Waste management & janitorial services | |
| Incubator space | |
| Back up power | |
| Lab/office security | |
| Construction/Renovationquality | |
| Bids for lab renovation | |

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Equipment and Maintenance

29. What type of specialized instrumentation do you use predominantly to conduct your research?

30. What type of specialized instrumentation to conduct your research do you need that you don't currently have (be specific)?



32. How would you rate the maintenance of research related equipment?

- Excellent
- Good
- Fair
- Poor (please explain below)
- Not applicable
- 33. Do you have sufficient computing power (hardware/software) for your research?
 - Yes
 - No (please explain below)
 - Not applicable
- 34. How often are you provided with a new computer (for research purposes)?
 - Every 1-2 years
 - Every 3-4 years
 - Every 5 years or more
 - Not applicable (purchase from research grant)
- 35. Does your department or school/college have spare computing equipment which can be loaned?
 - Yes
 - No
 - Don't know.
- 36. How adequate is the supply of software available to conduct your research?
 - Excellent
 - Good

- Poor (please explain below)
- Not applicable
- 37. Are data links on campus and to off-campus sites adequate in data transmission rate?
 - Yes
 - No
 - Not applicable or don't know
- 38. Do you have access to high capacity scanners and laser printers?
 - Yes
 - No
 - Not applicable
- 39. Should there be more shared equipment?
 - Yes (please explain below)
 - No
 - Not applicable
- 40. Do you have easy access to teleconferencing and smart conference facilities?
 - Yes
 - No
 - Don't use
 - Don't know
- 41. Feel free to explain your responses to the previous Equipment and maintenance questions.

| Equipment maintenance Computer supplies Computer upgrades Spare computing equipment Software supplies Data links Scanners and printers Shared equipment Teleconferencing and smart conference aritities | Instrumentation | |
|--|-----------------|--|
| supplies Image: supplies Computer upgrades Spare computing equipment Spare computing equipment Image: supplies Software supplies Image: supplies Data links Image: supplies Scanners and printers Image: supplies Shared equipment Image: supplies Shared equipment Image: supplies Teleconferencing and smart conference Image: supplies | | |
| upgrades import in the second sec | | |
| computing equipment Software supplies Data links Scanners and printers Shared equipment Teleconferencing and smart conference | | |
| Software suppliesImage: Software suppliesData linksImage: Software softwareScanners and printersImage: Software so | computing | |
| Scanners and printers Shared equipment Teleconferencing and smart conference | Software | |
| printers Shared equipment Teleconferencing and smart conference | Data links | |
| equipment Teleconferencing and smart conference | | |
| and smart conference | | |
| | and smart | |



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Comments and Suggestions

42. Is there any other issue relating to research facilities and infrastructure that you would like to comment on? Please explain.