Attachment C

FY 2015 Facilities Survey Questionnaire

National Science Foundation

FY 2015 Survey of Science and Engineering Research Facilities

Your participation in this survey is voluntary. However, your institution's response is important. The information from this survey on individual institutions can be used by your institution and other institutions for decision- and policy-making. The data also describe science and engineering research facilities at the national, regional, and state levels.

Based on information collected in the FY 2013 cycle, responding to this survey typically requires 19 hours depending on how data are maintained at your institution. If you wish to comment on the burden of completing this survey, contact Suzanne H. Plimpton, Reports Clearance Officer, NSF, via e-mail at splimpto@nsf.gov or call 1-703-292-7556. Or, you may write to the Office of Management and Budget, Paperwork Reduction Project (OMB Number 3145-0101), Washington, DC 20503.
Expiration date: XX/XX/XXXX

If you have a question, please contact Lorraine Lewis via e-mail at facilitiessurvey@westat.com or call 1-888-811-1838. The survey director at the National Science Foundation is Mr. Michael Gibbons.

Please complete and send this survey to NSF on the web (according to the instructions on page 1) or return it by mail to:

ATTN: NSF Facilities Survey
Westat
1600 Research Boulevard
Rockville, MD 20850

Thank you for your participation.

General information

This questionnaire is available electronically. Go to www.facilitiessurvey.org to access the survey. You will need to enter your institution's ID and password.

Please report information for the **institution** named on the web survey questionnaire.

If you do not have exact figures for any part of this questionnaire, please provide estimates.

Confidentiality

Information provided on research animal space (Questions 1 row i, 3, and 9f) and on the condition of S&E space (Question 6) will not be publicly available for individual institutions. In accordance with the National Science Foundation Act of 1950, as amended, and other applicable federal laws, your responses will not be disclosed in identifiable form to anyone other than agency employees or authorized persons.

Changes from previous survey cycle

- **Fields of science and engineering (S&E):** Changes have been made to the fields of S&E and to the lists of disciplines included in the fields in order to better coordinate field totals in national academic surveys. For a description of the fields of S&E, see Question 2 on pages 5–7. If you have questions about the definitions for fields of S&E, please contact Lorraine Lewis via e-mail at facilitiessurvey@westat.com or call 1-888-811-1838.
- **Question 19 on survey completion time** has been deleted.
- The **Crosswalk of Survey Fields of S&E to the National Center for Education Statistics (NCES) 2010 Classification of Instructional Programs (CIP)** has been deleted.

Definition of science and engineering (S&E) research and research space

Please use these definitions when answering all questions in this survey.

Research is all sponsored research and development activities of your institution that are separately budgeted and accounted for. Research can be funded by your own institution, the federal government, a state government, foundations, corporations, or other sources. It does not include departmental research that is not separately budgeted.

Research space is the net assignable square feet of space in buildings within which research activities take place. Research facilities are located within buildings. A **building** is a roofed structure for permanent or temporary shelter of persons, animals, plants, materials, or equipment. Structures should be included if they are (1) attached to a foundation, (2) roofed, (3) serviced by a utility, exclusive of lighting, and (4) a source of significant maintenance and repair activities.

Net assignable square feet (NASF) is the sum of all areas on all floors of a building assigned to, or available to be assigned to, an occupant for a specific use, such as research or instruction. NASF is measured from the inside faces of walls.

Science and engineering (S&E) includes the following fields: agricultural sciences and natural resources sciences, biological and biomedical sciences, computer and information sciences, engineering, health and clinical sciences, mathematics and statistics, physical sciences, psychology, social sciences, and other science and engineering fields. See Question 2 on pages 5–7 for a detailed list of the disciplines included in each of these fields.

Definition of science and engineering (S&E) research and research space (continued)

Research space includes:

- controlled-environment space, such as clean, cold, or white rooms
- technical and laboratory support space, such as equipment areas, preparation areas, darkrooms, carpentry and machine shops, storage areas, etc.
- laboratories, including computer labs, behavior observation rooms, etc.
- core laboratories that serve other laboratories
- laboratories and associated support areas used for research animals, including procedure rooms, bench space, animal production colonies, holding rooms, germ-free rooms, surgical facilities, recovery rooms, etc.
- housing facilities for research animals and associated maintenance areas, including cage rooms, stalls, wards, isolation rooms, exercise rooms, feed storage rooms, cage-washing rooms, holding and storage areas, etc.
- space for clinical trial research
- offices, to the extent that they are used for research activities, including administrative activities for a specific research project
- space with fixed (built-in) equipment such as fume hoods
- space with nonfixed equipment costing $1 million or more each, such as MRIs
- space that is leased by your institution

Research space does not include:

- space for the fields of law, business administration/management, humanities, history, the arts, or education
- libraries, unless they are dedicated to a specific research project
- animal field buildings sheltering animals that do not directly support research or that are not subject to government regulations concerning humane care and use of laboratory animals
- Federally Funded Research and Development Centers (FFRDCs)
- in-kind space used by your faculty, staff, or other persons but administered by other organizations, such as research facilities at non-university hospitals or Veterans Administration hospitals
- space administered by your institution but leased to another organization
- outdoor areas such as fish ponds or planting fields

Question 1: Types of science and engineering (S&E) research space

1. Please indicate whether or not your institution had each type of S&E research space listed below at the end of your FY 2015. See pages 2–3 for the definition of research space and fields of S&E.

Types of S&E research space	Did your institution have this type of S&E research space at end of FY 2015? (Mark one "X" for each row.) Yes	No	Uncertain
a. Laboratories, wet or dry, including computer laboratories, behavior observation laboratories, etc.	☐	☐	☐
b. Laboratory support space, including autoclave rooms, darkrooms, equipment areas, storage areas for research equipment and supplies, etc.	☐	☐	☐
c. Instructional laboratories that are ***also*** used for research	☐	☐	☐
d. Core laboratories that serve other laboratories	☐	☐	☐
e. Leased space that is used for research	☐	☐	☐
f. Offices, to the extent they are used for research	☐	☐	☐
g. Space used for research containing nonfixed equipment costing $1 million or more each, such as MRIs	☐	☐	☐
h. Research space in a medical school that awards the M.D. or D.O. degree	☐	☐	☐
i. Research animal space Reminder: Please see page 1 for confidentiality of this item. Laboratories and associated support areas used for research animals that are subject to local, state, and federal government policies and regulations concerning humane care and use of animals. Examples include procedure rooms, holding rooms, recovery rooms, animal production colonies, and storage areas. Space for housing research animals and associated maintenance areas that are subject to local, state, and federal government policies and regulations concerning humane care and use of animals. Examples include animal quarters, cage washing rooms, feed storage areas, isolation rooms, and exercise rooms.	☐	☐	☐
j. Research space that is used for clinical trials	☐	☐	☐

Question 2: Amount of research space

2. At the end of your FY 2015, how much net assignable square feet was used for research (based on the definition of research space on pages 2–3) for each of the fields of science and engineering (S&E) below? Please include any research animal space in the relevant fields of S&E. You may provide estimates if you do not have exact figures.

   Research space is equivalent to functional category 2 (Research) for facilities inventory systems based on the U.S. Department of Education Facilities Inventory and Classification Manual (FICM classification), the Western Interstate Commission for Higher Education (WICHE classification), and the National Association of College and University Business Officers (NACUBO classification).

   Research animal space includes all departmental and central facilities, such as laboratories, housing, and associated support areas, that are subject to local, state, and federal government policies and regulations concerning humane care and use of laboratory animals.

   If research space was shared among fields or used for other purposes in addition to research, report the portion of space used for research for each field below. For example, if two fields shared the space equally, report half of the space in one field and half in the other. Or, if an area was used for research one-fourth of the time and for other purposes the rest of the time, report one-fourth of the space as research space.

Field of S&E *(Include research animal space.)*		**Net assignable square feet of research space at end of FY 2015**
a. Agricultural sciences		
Agricultural production operations Agriculture, excluding agricultural business and management Animal sciences Applied horticulture and horticultural business services Fishing and fisheries sciences and management	Food science and technology Forestry International agriculture Plant pathology and phytopathology, agricultural Plant sciences Soil sciences Agricultural sciences, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
b. Biological and biomedical sciences		
Anatomical sciences Animal biology Biochemistry Bioinformatics Biomathematics Biophysics Biotechnology Botany Cell biology Cellular biology Computational biology Ecology Epidemiology Genetics Immunology Microbiological sciences	Molecular biology Molecular medicine Neurobiology Neuroscience Nutrition sciences Pathology Pharmacology Physiology Plant biology Plant pathology and phytopathology, biological sciences Population biology Toxicology Zoology Biological and biomedical sciences, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
c. Computer and information sciences		
Computer and information technology administration and management Computer science Computer software and media applications Computer systems analysis	Computer systems networking and telecommunications Data processing Information science, studies Computer and information sciences, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015

Field of S&E *(Include research animal space.)*		**Net assignable square feet of research space at end of FY 2015**

d. Engineering

Aeronautical engineering	Environmental health engineering	_____ NASF
Aerospace engineering	Forest engineering	
Agricultural engineering	Industrial engineering	☐ Check this box if no research space in this field at the end of FY 2015
Astronautical engineering	Manufacturing engineering	
Automation engineering	Marine engineering	
Bioengineering	Materials engineering	
Biomedical engineering	Mechanical engineering	
Chemical engineering	Mechatronics	
Civil engineering	Medical engineering	
Communications engineering	Metallurgical engineering	
Computer engineering	Nanotechnology	
Electrical engineering	Naval architecture	
Electronic engineering	Nuclear engineering	
Engineering chemistry	Ocean engineering	
Engineering design	Operations research	
Engineering mechanics	Paper science	
Engineering physics	Petroleum engineering	
Engineering science	Robotics	
Environmental engineering	Engineering, other	

e. Geosciences, atmospheric, and ocean sciences

Atmospheric science	Meteorology	_____ NASF
Biological oceanography	Ocean sciences	
Earth sciences	Physical geography	☐ Check this box if no research space in this field at the end of FY 2015
Geological sciences	Geosciences, atmospheric, and ocean sciences, other	
Marine sciences		

f. Health sciences

Advanced, graduate dentistry and oral sciences	Nursing	_____ NASF
Allied health and medical assisting services	Nursing administration	
Bioethics, medical ethics	Nursing research	☐ Check this box if no research space in this field at the end of FY 2015
Clinical laboratory science/research and allied professions	Optometry	
	Oral sciences	
Clinical medicine research	Osteopathic medicine	
Clinical nursing	Osteopathy	
Communication disorders sciences and services	Pharmaceutical administration	
Dentistry	Pharmaceutical sciences	
Gerontology, health sciences	Pharmacy	
Health and medical administrative services	Podiatric medicine	
Health, medical preparatory programs	Podiatry	
Informatics	Public health	
Kinesiology and exercise science	Radiological science	
Medical clinical sciences	Registered nursing	
Medical illustration	Rehabilitation and therapeutic professions	
Medical laboratory science/research and allied professions	Veterinary biomedical and clinical sciences	
	Veterinary medicine	
Medicine	Health sciences, other	

g. Mathematics and statistics

Applied mathematics	Statistics	_____ NASF
Mathematics	Mathematics and statistics, other	
		☐ Check this box if no research space in this field at the end of FY 2015

Field of S&E *(Include research animal space.)*		Net assignable square feet of research space at end of FY 2015
h. Natural resources and conservation		
Environmental science or studies Natural resources conservation and research Natural resources management and policy	Wildlife and wildlands science and management Natural resources and conservation, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
i. Physical sciences		
Astronomy Astrophysics Chemistry	Materials science Physics Physical sciences, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
j. Psychology		
Applied Psychology Clinical psychology Counseling psychology	Research and experimental psychology Psychology, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
k. Social sciences		
Agricultural economics Anthropology Archeology Criminology Demography Economics Geography and cartography Gerontology, social sciences International relations	National security studies Natural resource economics Political science Population studies Public policy Sociology Urban studies, affairs Social sciences, other	_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015
l. Other field of S&E		
Use this category when multidisciplinary, interdisciplinary, or other aspects make classification under one primary S&E field impossible. Please see pages 2–3 for the definition of S&E research and research space. *(Please describe.)* _____		_____ NASF ☐ Check this box if no research space in this field at the end of FY 2015

Question 3: Research animal space

Reminder: Please see page 1 for confidentiality of this item.

3. At the end of your FY 2015, how much of the research NASF reported in Question 2 was used for research animals?

Research animal space includes all departmental and central facilities, such as laboratories, housing, and associated support areas, that are subject to local, state, and federal government policies and regulations concerning humane care and use of laboratory animals.

Research animal portion of the space
included in Question 2 *(If none, enter "0.")*....._____ NASF

Question 4: Clinical trial research space

4. At the end of your FY 2015, how much of the research NASF reported in Question 2 was used for clinical trials?

Clinical trial portion of the space
included in Question 2 *(If none, enter "0.")*....._____ NASF

Question 5: Research space in medical school

5. ***If your institution had a medical school,*** how much of the research NASF reported in Question 2 was located in the medical school at the end of your FY 2015?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution did ***not*** have a medical school,
check this box and go to Question 6.....☐

Medical school portion of the space
included in Question 2 *(If none, enter "0.")*....._____ NASF

Question 6: Condition of research space

Reminder: Please see page 1 for confidentiality of this item.

6. At the end of your FY 2015, what percentage of the research NASF reported in Question 2 fell into each of the four condition categories below? Include research animal space.

Superior condition	Suitable for the most scientifically competitive research in this field over the next 2 years (your FY 2016 and FY 2017)
Satisfactory condition	Suitable for continued use over the next 2 years (your FY 2016 and FY 2017) for most levels of research in this field, but may require minor repairs or renovation
Requires renovation	Will no longer be suitable for current research without undergoing major renovation within the next 2 years (your FY 2016 and FY 2017)
Requires replacement	Should stop using space for current research within the next 2 years (your FY 2016 and FY 2017)

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include research animal space.)*	***Mark "X" if no research space in this field***	**Percent of net assignable square feet** *(The percentages should sum to 100 within each row.)* Superior condition	Satisfactory condition	Requires renovation	Requires replacement	Total
a. Agricultural sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
b. Biological and biomedical sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
c. Computer and information sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
d. Engineering	☐	_____ %	_____ %	_____ %	_____ %	100%
e. Geosciences, atmospheric, and ocean sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
f. Health sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
g. Mathematics and statistics	☐	_____ %	_____ %	_____ %	_____ %	100%
h. Natural resources and conservation	☐	_____ %	_____ %	_____ %	_____ %	100%
i. Physical sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
j. Psychology	☐	_____ %	_____ %	_____ %	_____ %	100%
k. Social sciences	☐	_____ %	_____ %	_____ %	_____ %	100%
l. Other field of S&E	☐	_____ %	_____ %	_____ %	_____ %	100%

Question 7: Repairs and renovations started in FY 2014 and FY 2015

7. Please provide the completion costs for repair and renovation of S&E research facilities that started during your FY 2014 or FY 2015. Include research animal space in the relevant fields of S&E. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E listed below. For **multi-year projects**, report the entire completion cost even if some work will occur in future years.

Start date is the date on which the physical work of the repairs or renovations actually began.

Repairs and renovations are activities such as fixing up facilities in deteriorated condition, capital improvements on facilities, conversion of facilities, and the building out of shell space. Include any repairs or renovations to existing space that are performed in combination with new construction projects. ***Do not*** report building additions since they are reported in this survey under new construction.

Completion costs include planning, site preparation, construction, fixed equipment, nonfixed equipment that costs $1 million or more, and building infrastructure such as plumbing, lighting, air exchange, and safety systems either in the building or within 5 feet of the building foundation.

If research facilities are shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do **not** report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do **not** report either field's portion, which is $200,000 each.

If research facilities are also used for nonresearch activities, report the S&E research portion of the costs for the fields listed below if the research portion is $250,000 or more. For example, if a facility is used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

If your institution had no repair or renovation projects, check this box and go to Question 9 ..... ☐

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include costs for research animal space.)*	**Completion costs for projects started in FY 2014 or FY 2015**
a. Agricultural sciences	$ _____
b. Biological and biomedical sciences	$ _____
c. Computer and information sciences	$ _____
d. Engineering	$ _____
e. Geosciences, atmospheric, and ocean sciences	$ _____
f. Health sciences	$ _____
g. Mathematics and statistics	$ _____
h. Natural resources and conservation	$ _____
i. Physical sciences	$ _____
j. Psychology	$ _____
k. Social sciences	$ _____
l. Other field of S&E *(Please describe.)* _____	$ _____

Question 8: For medical schools only: repairs and renovations in FY 2014 and FY 2015

8. ***If your institution had a medical school,*** how much of the completion costs for repair and renovation of research facilities as reported in Question 7 was located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution did ***not*** have a medical school, check this box and go to Question 9..... ☐

Medical school portion of the costs included in Question 7 *(If none, enter "0.")*.....$ _____

Question 9: New construction started in FY 2014 and FY 2015

9. Please provide the total number of new construction projects that included S&E research facilities that started during your FY 2014 or FY 2015. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E. Include research animal space in the relevant fields of S&E.

   New construction is the construction of a new building or additions to an existing building.

   Research facilities are defined on pages 2–3 of the survey questionnaire.

   Start date is the date on which the physical work of the construction actually began.

   Completion costs include planning, site preparation, construction, fixed equipment, nonfixed equipment that costs $1 million or more, and building infrastructure such as plumbing, lighting, air exchange, and safety systems either in the building or within 5 feet of the building foundation.

   If facilities are shared for research and nonresearch activities, report only projects with completion costs of $250,000 or more for at least one field of S&E research. For example, if a $300,000 project involves space used for research only one-fourth of the time, this project of $75,000 for the research facilities should not be reported.

   If facilities are shared by two or more fields of S&E, report the new construction project only if at least one field of S&E research has completion costs of $250,000 or more. For example, if two fields share the costs equally for a research project costing $400,000, neither field's share of $200,000 meets the cost minimum.

   If your institution had no new construction projects, check this box and go to Question 10 ..... ☐

   If your institution had one or more new construction projects, enter the number of projects here and fill out a separate Individual Project Form for each one ..... _____ projects

Please make additional copies of this form as needed.

Individual Project Form for Question 9

Please complete this form for ***each*** new construction project that started during your FY 2014 or FY 2015. Include only projects that will cost $250,000 or more for at least one of the S&E fields. Consider the start date to be the date on which the physical work of the new construction began.

9A. What is the name of this project? _____

_____

_____

9B. During which of your fiscal years did the physical work of new construction begin for this project?

FY 2014 ..... ☐

FY 2015 ..... ☐

9C. When this project is completed, what is (a) the entire project's (research and nonresearch) gross square feet; (b) the entire project's net assignable square feet; and (c) the S&E research facilities portion in net assignable square feet?

For multi-year projects, report the space expected when the project is completed.

a. Gross square feet (GSF) for entire project (research and nonresearch) ..... _____ GSF

Gross square feet (GSF) is the floor area of a structure within the outside faces of the exterior walls.

b. Net assignable square feet (NASF) for entire project (research and nonresearch) ..... _____ NASF

Net assignable square feet (NASF) is the sum of all areas on all floors of a building assigned to, or available to be assigned to, an occupant for a specific use, such as research or instruction. NASF is measured from the inside faces of walls.

NOTE: If the entire project is S&E research, the answers for row b and row c will be the same.

c. Net assignable square feet for ***S&E research facilities*** portion (defined on pages 2–3 of the survey questionnaire) ..... _____ NASF

Research facilities are defined on pages 2–3 of the survey questionnaire, including examples of what areas to include and exclude.

If the research facilities are also used for nonresearch activities, adjust the amount of space based on the amount of time the area is used for S&E research. For example, if an area is used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the space as S&E research facilities.

9D. When this project is completed, what are the completion costs for (a) the entire project (research and nonresearch), and (b) the S&E research facilities portion of the project? ***For multi-year projects,*** report the costs expected when the project is completed.

Completion costs include planning, site preparation, construction, fixed equipment, nonfixed equipment that costs $1 million or more, and building infrastructure such as plumbing, lighting, air exchange, and safety systems either in the building or within 5 feet of the building foundation.

a. Completion costs for the GSF of the entire project (research and nonresearch) ..... $ _____

b. Completion costs for the ***S&E research facilities*** portion (defined on pages 2–3 of the survey questionnaire) ..... $ _____

If the research facilities are also used for nonresearch activities, adjust the completion costs based on the amount of time the facilities are used for S&E research. For example, if a facility is used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

Please make additional copies of this form as needed.

Individual Project Form for Question 9

9E. For the portion of this project used for ***S&E research facilities,*** what are (1) the completion costs, and (2) the net assignable square feet, for each field listed below? ***For multi-year projects,*** report costs and NASF expected when the project is completed.

Report only fields with costs of $250,000 or more for research facilities.

If research facilities are shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do not report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do not report either field's portion, which is $200,000 each.

If research facilities are also used for nonresearch activities, report the S&E research portion of the cost and net assignable square feet for the fields listed below if the research portion is $250,000 or more. For example, if a facility will be used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include research animal space.)*	Research facilities (1) Completion costs	Research facilities (2) Net assignable square feet
a. Agricultural sciences	$ _____	_____ NASF
b. Biological and biomedical sciences	$ _____	_____ NASF
c. Computer and information sciences	$ _____	_____ NASF
d. Engineering	$ _____	_____ NASF
e. Geosciences, atmospheric, and ocean sciences	$ _____	_____ NASF
f. Health sciences	$ _____	_____ NASF
g. Mathematics and statistics	$ _____	_____ NASF
h. Natural resources and conservation	$ _____	_____ NASF
i. Physical sciences	$ _____	_____ NASF
j. Psychology	$ _____	_____ NASF
k. Social sciences	$ _____	_____ NASF
l. Other field of S&E *(Please describe.)* _____	$ _____	_____ NASF

Reminder: Please see page 1 for confidentiality of this item.

9F. How much of the completion costs and NASF reported in Question 9E are for ***research animal space***?

Research animal space includes all departmental and central facilities, such as laboratories, housing, and associated support areas, that are subject to local, state, and federal government policies and regulations concerning humane care and use of laboratory animals.

	Completion costs	Net assignable square feet
Research animal portion included in Question 9E *(If none, enter "0.")*	$ _____	_____ NASF

9G. ***If your institution has a medical school,*** how much of the completion costs and NASF reported in Question 9E are for research facilities located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution does ***not*** have a medical school, check this box and go to Question 10 ☐

	Completion costs	Net assignable square feet
Medical school portion included in Question 9E *(If none, enter "0.")*	$ _____	_____ NASF

Question 10: Sources of project funding

10. Please provide the completion costs by source of funding for repair and renovation and new construction of S&E research facilities that started during your FY 2014 or FY 2015 as reported in Question 7 and Question 9E.

Total costs reported in column 1 should match the sum of the costs for repair and renovation of research facilities reported in Question 7 on page 10.

Total costs reported in column 2 should match the sum of the costs for new construction as reported in Question 9E on all Individual Project Form(s).

Source of funding	Completion costs (1) For repairs and renovations reported in Question 7	Completion costs (2) For new construction reported in Question 9E (all project forms)
a. Federal government	$ _____	$ _____
b. State or local government	$ _____	$ _____
c. Institutional funds and other sources Examples: operating funds, endowments, tax-exempt bonds and other debt financing, indirect costs recovered from federal grants/contracts, private donations, other sources	$ _____	$ _____
Total	$ _____	$ _____

Question 11: Planned repairs and renovations to start in FY 2016 and FY 2017

11. Please provide the estimated completion costs planned for repair and renovation of S&E research facilities that are funded **and** scheduled to start in your FY 2016 or FY 2017. Include research animal space in the relevant fields of S&E. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E listed below. For **multi-year projects**, report the entire completion cost even if some work will occur in future years.

Start date is the date on which the physical work of the repairs or renovations is scheduled to begin.

Repairs and renovations are activities such as fixing up facilities in deteriorated condition, capital improvements on facilities, conversion of facilities, and the building out of shell space. Include any repairs or renovations to existing space that are performed in combination with new construction projects. ***Do not*** report building additions since they are reported in this survey under new construction.

Completion costs include planning, site preparation, construction, fixed equipment, nonfixed equipment that costs $1 million or more, and building infrastructure such as plumbing, lighting, air exchange, and safety systems either in the building or within 5 feet of the building foundation.

If research facilities are shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do **not** report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do **not** report either field's portion, which is $200,000 each.

If research facilities will also be used for nonresearch activities, report the S&E research portion of the costs for the fields listed below if the research portion is $250,000 or more. For example, if a facility will be used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

If your institution does **not** have planned repair or renovation projects, check this box and go to Question 13..... ☐

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include costs for research animal space.)*	**Completion costs for planned repair/renovation projects to start in FY 2016 or FY 2017**
a. Agricultural sciences	$ _____
b. Biological and biomedical sciences	$ _____
c. Computer and information sciences	$ _____
d. Engineering	$ _____
e. Geosciences, atmospheric, and ocean sciences	$ _____
f. Health sciences	$ _____
g. Mathematics and statistics	$ _____
h. Natural resources and conservation	$ _____
i. Physical sciences	$ _____
j. Psychology	$ _____
k. Social sciences	$ _____
l. Other field of S&E *(Please describe.)* _____	$ _____

Question 12: For medical schools only: planned repairs and renovations in FY 2016 and FY 2017

12. ***If your institution has a medical school***, how much of the completion costs for planned repair and renovation of research facilities as reported in Question 11 will be located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution does ***not*** have a medical school, check this box and go to Question 13 ..... ☐

Medical school portion of the costs included in Question 11 *(If none, enter "0.")* ..... $ _____

Question 13: Planned new construction to start in FY 2016 and FY 2017

13. Please provide the estimated completion costs and NASF for planned new construction of S&E research facilities that are funded and scheduled to start in your FY 2016 or FY 2017. Include research animal space in the relevant fields of S&E. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E listed below. For **multi-year projects**, report the entire completion cost even if some work will occur in future years.

Start date is the date on which the physical work of the construction is scheduled to begin.

New construction is the construction of a new building or additions to an existing building.

Completion costs include planning, site preparation, construction, fixed equipment, nonfixed equipment that costs $1 million or more, and building infrastructure such as plumbing, lighting, air exchange, and safety systems either in the building or within 5 feet of the building foundation.

If research facilities are shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do **not** report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do **not** report either field's portion, which is $200,000 each.

If research facilities are also used for nonresearch activities, report the S&E research portion of the costs and net assignable square feet for the fields listed below if the research portion is $250,000 or more. For example, if a facility will be used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

If your institution does ***not*** have any planned new construction projects, check this box and go to Question 15 ..... ☐

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include costs for research animal space.)*	**Planned new construction scheduled to start in FY 2016 or FY 2017**	
	Completion costs	Net assignable square feet
a. Agricultural sciences	$ _____	_____ NASF
b. Biological and biomedical sciences	$ _____	_____ NASF
c. Computer and information sciences	$ _____	_____ NASF
d. Engineering	$ _____	_____ NASF
e. Geosciences, atmospheric, and ocean sciences	$ _____	_____ NASF
f. Health sciences	$ _____	_____ NASF
g. Mathematics and statistics	$ _____	_____ NASF
h. Natural resources and conservation	$ _____	_____ NASF
i. Physical sciences	$ _____	_____ NASF
j. Psychology	$ _____	_____ NASF
k. Social sciences	$ _____	_____ NASF
l. Other field of S&E *(Please describe.)* _____	$ _____	_____ NASF

Question 14: For medical schools only: planned new construction in FY 2016 and FY 2017

14. ***If your institution has a medical school***, how much of the completion costs and NASF for the planned new construction of research facilities as reported in Question 13 will be located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution does ***not*** have a medical school, check this box and go to Question 15..... ☐

	Completion costs	**Net assignable square feet**
Medical school portion included in Question 13 *(If none, enter "0.")*	$ _____	_____ NASF

Question 15: Deferred repairs and renovations

15. Please provide the estimated costs for any **deferred repair and renovation** projects of S&E research facilities that are needed for current research program commitments, but are not yet funded **and** not yet scheduled to start in your FY 2016 or FY 2017. Include research animal space in the relevant fields of S&E. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E listed below. Please estimate costs separately for projects included in your approved institutional plan and projects not included in this plan. Institutional plans usually will include goals, strategies, and budgets for fulfilling your institution's mission during a specific time period.

Deferred projects are those that: (1) are not funded, and (2) are not scheduled for FY 2016 or FY 2017. Do not include projects planned for developing new programs or expanding your current programs.

Repairs and renovations are activities such as fixing up facilities in deteriorated condition, capital improvements on facilities, conversion of facilities, and the building out of shell space. Include any repairs or renovations to existing space that are performed in combination with new construction projects. ***Do not*** report building additions since they are reported in this survey under new construction.

Current research program commitments include current faculty and staff or those to whom offers have been made or grants awarded (whether or not research has actually begun) and programs which have been approved.

If research facilities will be shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do **not** report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do **not** report either field's portion, which is $200,000 each.

If research facilities will also be used for nonresearch activities, report the S&E research portion of the costs for the fields listed below if the research portion is $250,000 or more. For example, if a facility will be used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

If your institution does ***not*** have deferred projects for repair or renovation, check this box and go to Question 17 ..... ☐

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include costs for research animal space.)*	**Estimated costs of deferred repairs and renovations** For projects included in your institutional plan	For projects ***not*** included in your institutional plan
a. Agricultural sciences	$	$
b. Biological and biomedical sciences	$	$
c. Computer and information sciences	$	$
d. Engineering	$	$
e. Geosciences, atmospheric, and ocean sciences	$	$
f. Health sciences	$	$
g. Mathematics and statistics	$	$
h. Natural resources and conservation	$	$
i. Physical sciences	$	$
j. Psychology	$	$
k. Social sciences	$	$
l. Other field of S&E *(Please describe.)* _____	$	$

Question 16: For medical schools only: deferred repairs and renovations

16. ***If your institution has a medical school***, how much of the estimated costs for deferred repair and renovation of research facilities as reported in Question 15 would be located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution does ***not*** have a medical school, check this box and go to Question 17 ..... ☐

	For projects included in your institutional plan	**For projects *not* included in your institutional plan**
Medical school portion of the costs included in Question 15 *(If none, enter "0.")*.....	$ _____	$ _____

Question 17: Deferred new construction

17. Please provide the estimated costs for any **deferred new construction** projects of S&E research facilities that are needed for current program commitments, but are not yet funded **and** not yet scheduled to start in your FY 2016 or FY 2017. Include research animal space in the relevant fields of S&E. Include only projects whose prorated cost was estimated to be $250,000 or more for at least one field of S&E listed below. Please estimate costs separately for projects included in your approved institutional plan and projects not included in this plan. Institutional plans usually will include goals, strategies, and budgets for fulfilling your institution's mission during a specific time period.

Deferred projects are those that: (1) are not funded, and (2) are not scheduled for FY 2016 or FY 2017. Do not include projects planned for developing new programs or expanding your current programs.

New construction is the construction of a new building or additions to an existing building.

Current research program commitments include current faculty and staff or those to whom offers have been made or grants awarded (whether or not research has actually begun) and programs which have been approved.

If research facilities will be shared by two or more fields, allocate the appropriate share of the costs to each field in order to determine which fields to report. For example, if a field will have one-fourth of the costs for a $300,000 project, do **not** report that field's share, which is $75,000. If a $400,000 project will have two fields with the same costs, do **not** report either field's portion, which is $200,000 each.

If research facilities will also be used for nonresearch activities, report the S&E research portion of the costs for the fields listed below if the research portion is $250,000 or more. For example, if a facility will be used for S&E research one-fourth of the time and for instruction the rest of the time, report one-fourth of the completion costs for S&E research facilities.

If your institution does ***not*** have deferred projects for new construction, check this box and go to Question 19 ..... ☐

For Field of S&E definitions, see Question 2 on pages 5–7.

Field of S&E *(Include costs for research animal space.)*	**Estimated costs of deferred new construction** For projects included in your institutional plan	For projects ***not*** included in your institutional plan
a. Agricultural sciences	$	$
b. Biological and biomedical sciences	$	$
c. Computer and information sciences	$	$
d. Engineering	$	$
e. Geosciences, atmospheric, and ocean sciences	$	$
f. Health sciences	$	$
g. Mathematics and statistics	$	$
h. Natural resources and conservation	$	$
i. Physical sciences	$	$
j. Psychology	$	$
k. Social sciences	$	$
l. Other field of S&E *(Please describe.)*	$	$

Question 18: For medical schools only: deferred new construction

18. ***If your institution has a medical school***, how much of the estimated costs for deferred new construction of research facilities as reported in Question 17 would be located in the medical school?

Medical school is a school that awards the M.D. or D.O. degree.

If your institution does ***not*** have a medical school, check this box and go to Question 19 ..... ☐

	For projects included in your institutional plan	**For projects *not* included in your institutional plan**
Medical school portion of the costs included in Question 17 *(If none, enter "0.")*	$ _____	$ _____

Question 19: Comments

19. Please add any comments below.

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Thank you. This is the end of the survey.