



National Science Foundation
National Institutes of Health



FY 2007 Survey of Science and Engineering Research Facilities

Part 1: Research Space

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 pretests, responding to this survey (Part 1 and Part 2 combined) typically requires 41 hours for academic institutions or 7 hours for biomedical institutions, 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.

If you have a question, please contact *[name]* via e-mail at *[email address]* or call *[toll-free number]*. The survey director at the National Science Foundation is Dr. Leslie Christovich.

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

ATTN: NSF Facilities Survey
[Contractor name and address]

Thank you for your participation.

General information

This questionnaire is available on the World Wide Web. Go to [web address] to access the web version of the questionnaire. You will need to click on “Part 1 and Coordinator Tools” and then enter the Part 1 Coordinator ID and password. These are provided on the label on the front cover of this paper questionnaire.

Please report information for the **institution** named on the label on the front cover.

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

Most FY 2007 Research Facilities Survey data will be identified for individual institutions. Identifying individual institutional data is standard policy for NSF’s research and development surveys, and will permit you to compare your institution’s data with other institutions’ data. Responses on two topics will not be publicly available for individual institutions because of their sensitive nature. These confidential data are: all responses concerning animal space (Question 1 row i, and questions 3, 7, 8, 10, 12F, 15, 18, 21, and 24) and reports on the condition of research space (Question 6).

Changes from previous survey cycle

- **Fields of science and engineering (S&E)**

Changes have been made to some field names, the order in which fields are listed in survey questions, and the disciplines included in some fields. For a description of the fields of S&E, see Question 2 on pages 5-7 or the crosswalk of NSF fields of S&E to the National Center for Education Statistics (NCES) 2000 Classification of Instructional Programs (CIP 2000) on pages 29-30.

- **Definition of a medical school**

The definition of medical school has been expanded to include schools that award the M.D. or D.O. degree.

- **Leased space**

The question asking for the amount of leased space has been deleted.

- **Deferred projects**

The questions on deferred repairs and renovations and deferred new construction are now limited to projects whose prorated cost is estimated to be \$250,000 or more for at least one field of S&E.

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 2007. See page 2 for the definition of research space and fields of S&E.

**Did your institution have this
type of S&E research space
at end of FY 2007?**

(Mark one "X" for each row.)

Types of S&E research space	Yes	No	Uncertain
a. Laboratories, wet or dry, including computer laboratories, behavior observation laboratories, etc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Laboratory support space, including autoclave rooms, darkrooms, equipment areas, storage areas for research equipment and supplies, etc.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Instructional laboratories that are <i>also</i> used for research.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Core laboratories that serve other laboratories.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Leased space that is used for research.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Offices, to the extent they are used for research.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Space used for research containing nonfixed equipment costing \$1 million or more each, such as MRIs.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Research space in a medical school that awards the M.D. or D.O. degree.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Research animal space.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>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.</p> <p>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.</p>			
j. Research space that is used for clinical trials.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Question 2: Amount of research space

2. At the end of your FY 2007, how much net assignable square feet was used for research (based on the definition of research space on page 2) 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 classification (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.

See pages 29-30 for crosswalk of NSF fields of S&E and NCES CIP codes.

Field of S&E (Include research animal space.)	Net assignable square feet of research space at end of FY 2007
A. Agricultural sciences and natural resources sciences	
Agricultural economics	_____ NASF
Animal sciences	<input type="checkbox"/> Check this box if no research space in this field at the end of FY 2007
Fishing and fisheries sciences	
Food science and technology	
Forestry	
Natural resources conservation and research (includes environmental science)	
Natural resources economics	
Plant sciences	
Soil sciences	
Wildlife and wildlands science	
B. Biological and biomedical sciences	
Anatomical sciences	_____ NASF
Animal biology	<input type="checkbox"/> Check this box if no research space in this field at the end of FY 2007
Biochemistry	
Bioinformatics	
Biology	
Biomathematics	
Biophysics	
Biotechnology	
Botany	
Cell biology	
Cellular biology	
Ecology	
Evolution	
Genetics	
Human nutrition	
Immunology	
Microbiological sciences	
Molecular biology	
Pathology	
Pharmacology	
Physiology	
Plant biology	
Population biology	
Toxicology	
Zoology	
Biological and biomedical sciences, other	
C. Computer and information sciences	
Computer science	_____ NASF
Computer software and media applications	<input type="checkbox"/> Check this box if no research space in this field at the end of FY 2007
Computer systems networking and telecommunications	
Information science	

Field of S&E
(Include research animal space.)

**Net assignable square feet
of research space at end
of FY 2007**

D. Engineering

Aeronautical engineering	Geophysical engineering
Aerospace engineering	Industrial engineering
Agricultural engineering	Manufacturing engineering
Architectural engineering	Marine engineering
Astronautical engineering	Materials engineering
Bioengineering	Materials science
Biological engineering	Mechanical engineering
Biomedical engineering	Medical engineering
Ceramic sciences and engineering	Metallurgical engineering
Chemical engineering	Mining and mineral engineering
Civil engineering	Naval architecture
Computer engineering, general	Nuclear engineering
Construction engineering	Ocean engineering
Electrical, electronics and communications engineering	Operations research
Engineering mechanics	Petroleum engineering
Engineering physics	Plastics engineering
Engineering science	Polymer engineering
Environmental engineering	Surveying engineering
Environmental health engineering	Systems engineering
Forest engineering	Textile sciences and engineering
Geological engineering	Engineering, other

_____ NASF
 Check this box if no
research space in this field at
the end of FY 2007

e. Health and clinical sciences

Allied health diagnostic, intervention, and treatment	Optometry
Clinical laboratory science	Oral sciences
Communication disorders sciences	Osteopathic medicine
Dentistry	Osteopathy
Informatics	Pharmaceutical sciences
Kinesiology and exercise science	Pharmacy
Medical clinical sciences	Podiatric medicine
Medical illustration	Podiatry
Medical laboratory science	Public health
Medicine	Rehabilitation and therapeutic subfields
Nursing	Veterinary biomedical sciences
	Veterinary medicine

_____ NASF
 Check this box if no
research space in this field at
the end of FY 2007

f. Mathematics and statistics

Applied mathematics
Mathematics
Statistics
Mathematics and statistics, other

_____ NASF
 Check this box if no
research space in this field at
the end of FY 2007

Field of S&E
(Include research animal space.)

**Net assignable square feet
of research space at end
of FY 2007**

g. Physical sciences

Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography

_____ NASF

Check this box if no research space in this field at the end of FY 2007

Group 2: Astronomy, astrophysics, chemistry, and physics

_____ NASF

Check this box if no research space in this field at the end of FY 2007

h. Psychology

Clinical child psychology
Clinical psychology
Cognitive psychology
Community psychology
Comparative psychology
Counseling psychology
Developmental and child psychology
Educational psychology
Environmental psychology
Experimental psychology
Family psychology
Forensic psychology
Geropsychology

Health psychology
Industrial and organizational psychology
Personality psychology
Physiological psychology
Psychobiology
Psycholinguistics
Psychometrics
Psychopharmacology
Quantitative psychology
School psychology
Social psychology
Psychology, other

_____ NASF

Check this box if no research space in this field at the end of FY 2007

i. Social sciences

Anthropology
Archeology
Criminalistics
Criminal justice
Criminal science
Criminology
Demography
Economics
Forensic science and technology

Geography and cartography
International relations and affairs
Police science
Political science and government
Population studies
Sociology
Urban affairs
Social sciences, other

_____ NASF

Check this box if no research space in this field at the end of FY 2007

j. Other sciences

Use this category when multidisciplinary, interdisciplinary, or other aspects make classification under one primary field impossible.

_____ NASF

(Please describe.) _____

Check this box if no research space in this field at the end of FY 2007

Question 3: Research animal space

3. At the end of your FY 2007, 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 2007, 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 2007?

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

6. At the end of your FY 2007, 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 2008 and FY 2009)
Satisfactory condition	Suitable for continued use over the next 2 years (your FY 2008 and FY 2009) 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 2008 and FY 2009)
Requires replacement	Should stop using space for current research within the next 2 years (your FY 2008 and FY 2009)

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				Total
		Superior condition	Satisfactory condition	Requires renovation	Requires replacement	
a. Agricultural sciences and natural resources sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
b. Biological and biomedical sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
c. Computer and information sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
d. Engineering.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
e. Health and clinical sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
f. Mathematics and statistics.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
g. Physical sciences						
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
Group 2: Astronomy, astrophysics, chemistry, and physics.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
h. Psychology.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
i. Social sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%
j. Other sciences.....	<input type="checkbox"/>	___ %	___ %	___ %	___ %	100%

Question 7: Condition of research animal space

7. At the end of your FY 2007, what percentage of the research animal space reported in Question 3 fell into each of the four condition categories below?

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.

Superior condition Suitable for the most scientifically competitive research in this field over the next 2 years (your FY 2008 and FY 2009)

Satisfactory condition Suitable for continued use over the next 2 years (your FY 2008 and FY 2009) 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 2008 and FY 2009)

Requires replacement Should stop using space for current research within the next 2 years (your FY 2008 and FY 2009)

Percent of net assignable square feet

*Mark "X" if
no research
animal
space*

(The percentages should sum to 100.)

	Superior condition	Satisfactory condition	Requires renovation	Requires replacement	Total
All space for research animals regardless of S&E field..... <input type="checkbox"/>	___ %	___ %	___ %	___ %	100%

Question 8: Biosafety level of research animal facilities

8. For each type of animal listed below, please indicate which types of biosafety level (BL) facilities were available at your institution at the end of your FY 2007.

Biosafety Levels (BL)

All research animal facilities are BL-1 or higher, depending on the type of research performed.

- BL-1** Involves working with defined and characterized strains of viable microorganisms not known to cause disease in healthy adult humans
- BL-2** Involves working with the broad spectrum of indigenous moderate-risk agents present in the community and associated with human disease of varying severity
- BL-3** Involves working with indigenous or exotic agents with a potential for respiratory transmission, and which may cause serious and potentially lethal infection
- BL-4** Involves working with dangerous and exotic agents that pose a high individual risk of life-threatening disease, that may be transmitted via the aerosol route, and for which there is no available vaccine or therapy

If your institution did **not** have research animal facilities, check this box and go to Question 9.....

Biosafety levels at end of FY 2007

Mark "X" if no facilities for this type of animal

(Check all that apply for each row.)

Type of animal	BL-1	BL-2	BL-3	BL-4
Non-mammals				
a. Fish/Aquatic species.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Birds.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Amphibians.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Reptiles.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Insects.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Other non-mammals (<i>Please specify.</i>).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<hr/>				
Mammals				
g. Rats, guinea pigs, or other rodents.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Cats, dogs, or rabbits.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Pigs, sheep, cattle, or goats.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Non-human primates.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Other mammals (<i>Please specify.</i>).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<hr/>				

Note: For additional information on biosafety levels, see the report *Biosafety in Microbiological and Biomedical Laboratories, 4th Edition, 1999*.

Question 9: Repairs and renovations started in FY 2006 and FY 2007

9. Please provide the completion costs for repair and renovation of S&E research facilities that started during your FY 2006 or FY 2007. 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 12.....

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 2006 or FY 2007
a. Agricultural sciences and natural resources sciences.....	\$ _____
b. Biological and biomedical sciences.....	\$ _____
c. Computer and information sciences.....	\$ _____
d. Engineering.....	\$ _____
e. Health and clinical sciences.....	\$ _____
f. Mathematics and statistics.....	\$ _____
g. Physical sciences	
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____
h. Psychology.....	\$ _____
i. Social sciences.....	\$ _____
j. Other sciences (Please describe.).....	\$ _____

Question 10: For research animal facilities only: repairs and renovations in FY 2006 and FY 2007

10. How much of the completion costs for repair and renovation of research facilities as reported in Question 9 was for research animal facilities?

Research animal portion of the costs
included in Question 9 (*If none, enter "0."*).....\$ _____

Question 11: For medical schools only: repairs and renovations in FY 2006 and FY 2007

11. ***If your institution had a medical school,*** how much of the completion costs for repair and renovation of research facilities as reported in Question 9 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 12.....

Medical school portion of the costs
included in Question 9 (*If none, enter "0."*).....\$ _____

Question 12: New construction started in FY 2006 and FY 2007

12. Please provide the total number of new construction projects that included S&E research facilities that started during your FY 2006 or FY 2007. 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 page 2 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 13.....

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 12
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Please complete this form for **each** new construction project that started during your FY 2006 or FY 2007. 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.

12A. What is the name of this project? _____

12B. During which of your fiscal years did the physical work of new construction begin for this project?

FY 2006.....

FY 2007.....

12C. 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 page 2 of the survey questionnaire)..... _____ NASF

Research facilities are defined on page 2 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.

Please make additional copies of this form as needed.

Individual Project Form for Question 12

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12D. 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 page 2 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 12

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12E. 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	(2) Net assignable square feet
a. Agricultural sciences and natural resources sciences.....	\$ _____	_____ NASF
b. Biological and biomedical sciences.....	\$ _____	_____ NASF
c. Computer and information sciences.....	\$ _____	_____ NASF
d. Engineering.....	\$ _____	_____ NASF
e. Health and clinical sciences.....	\$ _____	_____ NASF
f. Mathematics and statistics.....	\$ _____	_____ NASF
g. Physical sciences		
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____	_____ NASF
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____	_____ NASF
h. Psychology.....	\$ _____	_____ NASF
i. Social sciences.....	\$ _____	_____ NASF
j. Other sciences (Please describe.).....	\$ _____	_____ NASF

Please make additional copies of this form as needed.

Individual Project Form for Question 12

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12F. How much of the completion costs and NASF reported in Question 12E 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 12E (<i>If none, enter "0."</i>).....	\$ _____	_____ NASF

12G. **If your institution has a medical school**, how much of the completion costs and NASF reported in Question 12E 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 13.....

	Completion costs	Net assignable square feet
Medical school portion included in Question 12E (<i>If none, enter "0."</i>).....	\$ _____	_____ NASF

Question 13: Sources of project funding

13. 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 2006 or FY 2007 as reported in Question 9 and Question 12E.

Total costs reported in column 1 should match the sum of the costs for repair and renovation of research facilities reported in Question 9 on page 12.

Total costs reported in column 2 should match the sum of the costs for new construction as reported in Question 12E on all Individual Project Form(s).

Source of funding	Completion costs	
	(1) For repairs and renovations reported in Question 9	(2) For new construction reported in Question 12E (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 14: Planned repairs and renovations to start in FY 2008 and FY 2009

14. 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 2008 or FY 2009. 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 17.....

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

Field of S&E <i>(Include costs for research animal space.)</i>	Completion costs for planned repair/renovation projects to start in FY 2008 or FY 2009
a. Agricultural sciences and natural resources sciences.....	\$ _____
b. Biological and biomedical sciences.....	\$ _____
c. Computer and information sciences.....	\$ _____
d. Engineering.....	\$ _____
e. Health and clinical sciences.....	\$ _____
f. Mathematics and statistics.....	\$ _____
g. Physical sciences	
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____
h. Psychology.....	\$ _____
i. Social sciences.....	\$ _____
j. Other sciences <i>(Please describe.)</i>	\$ _____

Question 15: For research animal facilities only: planned repairs and renovations in FY 2008 and FY 2009

15. How much of the completion costs for planned repair and renovation of research facilities as reported in Question 14 will be for research animal facilities?

Research animal portion of the costs included in Question 14 (*If none, enter "0."*).....\$ _____

Question 16: For medical schools only: planned repairs and renovations in FY 2008 and FY 2009

16. *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 14 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 17.....

Medical school portion of the costs included in Question 14 (*If none, enter "0."*).....\$ _____

Question 17: Planned new construction to start in FY 2008 and FY 2009

17. 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 2008 or FY 2009. 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 20.....

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

Planned new construction scheduled to start in FY 2008 or FY 2009

Field of S&E (Include research animal space.)	Completion costs	Net assignable square feet
a. Agricultural sciences and natural resources sciences.....	\$ _____	_____ NASF
b. Biological and biomedical sciences.....	\$ _____	_____ NASF
c. Computer and information sciences.....	\$ _____	_____ NASF
d. Engineering.....	\$ _____	_____ NASF
e. Health and clinical sciences.....	\$ _____	_____ NASF
f. Mathematics and statistics.....	\$ _____	_____ NASF
g. Physical sciences		
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____	_____ NASF
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____	_____ NASF
h. Psychology.....	\$ _____	_____ NASF
i. Social sciences.....	\$ _____	_____ NASF
j. Other sciences (Please describe.).....	\$ _____	_____ NASF

Question 18: For research animal facilities only: planned new construction in FY 2008 and FY 2009

18. How much of the completion costs and NASF for the planned new construction of research facilities as reported in Question 17 will be for research animal facilities?

	Completion costs	Net assignable square feet
Research animal portion included in Question 17 (<i>If none, enter "0."</i>).....\$ _____		_____ NASF

Question 19: For medical schools only: planned new construction in FY 2008 and FY 2009

19. *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 17 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 20.....

	Completion costs	Net assignable square feet
Medical school portion included in Question 17 (<i>If none, enter "0."</i>).....\$ _____		_____ NASF

Question 20: Deferred repairs and renovations

20. 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 2008 or FY 2009. 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 2008 or FY 2009. 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 23.....

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 <i>not</i> included in your institutional plan
a. Agricultural sciences and natural resources sciences.....	\$ _____	\$ _____
b. Biological and biomedical sciences.....	\$ _____	\$ _____
c. Computer and information sciences.....	\$ _____	\$ _____
d. Engineering.....	\$ _____	\$ _____
e. Health and clinical sciences.....	\$ _____	\$ _____
f. Mathematics and statistics.....	\$ _____	\$ _____
g. Physical sciences		
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____	\$ _____
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____	\$ _____
h. Psychology.....	\$ _____	\$ _____
i. Social sciences.....	\$ _____	\$ _____
j. Other sciences (Please describe.).....	\$ _____	\$ _____

Question 21: For research animal facilities only: deferred repairs and renovations

21. How much of the estimated costs for deferred repair and renovation of research facilities as reported in Question 20 would be for research animal facilities?

	For projects included in your institutional plan	For projects not included in your institutional plan
Research animal portion of the costs included in Question 20 (<i>If none, enter "0."</i>).....	\$ _____	\$ _____

Question 22: For medical schools only: deferred repairs and renovations

22. *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 20 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 23.....

	For projects included in your institutional plan	For projects not included in your institutional plan
Medical school portion of the costs included in Question 20 (<i>If none, enter "0."</i>).....	\$ _____	\$ _____

Question 23: Deferred new construction

23. 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 2008 or FY 2009. 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 2008 or FY 2009. 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 26.....

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

Estimated costs of deferred new construction

Field of S&E (Include costs for research animal space.)	For projects included in your institutional plan	For projects not included in your institutional plan
a. Agricultural sciences and natural resources sciences.....	\$ _____	\$ _____
b. Biological and biomedical sciences.....	\$ _____	\$ _____
c. Computer and information sciences.....	\$ _____	\$ _____
d. Engineering.....	\$ _____	\$ _____
e. Health and clinical sciences.....	\$ _____	\$ _____
f. Mathematics and statistics.....	\$ _____	\$ _____
g. Physical sciences		
Group 1: Atmospheric, earth, and geological sciences; meteorology; and oceanography.....	\$ _____	\$ _____
Group 2: Astronomy, astrophysics, chemistry, and physics.....	\$ _____	\$ _____
h. Psychology.....	\$ _____	\$ _____
i. Social sciences.....	\$ _____	\$ _____
j. Other sciences (Please describe.).....	\$ _____	\$ _____

Question 24: For research animal facilities only: deferred new construction

24. How much of the estimated costs for deferred new construction projects of research facilities as reported in Question 23 would be for research animal facilities?

	For projects included in your institutional plan	For projects <i>not</i> included in your institutional plan
Research animal portion of the costs included in Question 23 (If none, enter "0.").....	\$ _____	\$ _____

Question 25: For medical schools only: deferred new construction

25. *If your institution has a medical school*, how much of the estimated costs for deferred new construction of research facilities as reported in Question 23 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 26.....

	For projects included in your institutional plan	For projects <i>not</i> included in your institutional plan
Medical school portion of the costs included in Question 23 (If none, enter "0.").....	\$ _____	\$ _____

Question 26: Comments

26. Please add any comments for Part 1 below.

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**Crosswalk of NSF Fields of S&E
to the National Center for Education Statistics (NCES)
2000 Classification of Instructional Programs (CIP)**

NSF field of S&E	NCES CIP 2000 classification			
Agricultural sciences and natural resources sciences	01.09	Animal sciences	03.05	Forestry
	01.10	Food science and technology	03.06	Wildlife and wildlands science and management
	01.11	Plant sciences		
	01.12	Soil sciences		Also include:
	03.01	Natural resources conservation and research (includes environmental science)	01.0103	Agricultural economics
			03.0204	Natural resources economics
	03.03	Fishing and fisheries sciences and management		
Biological and biomedical sciences	26.01	Biology, general	26.10	Pharmacology and toxicology
	26.02	Biochemistry, biophysics and molecular biology	26.11	Biomathematics and bioinformatics
	26.03	Botany/plant biology	26.12	Biotechnology
	26.04	Cell/cellular biology and anatomical sciences	26.13	Ecology, evolution and population biology
	26.05	Microbiological sciences and immunology	26.99	Biological and biomedical sciences, other
	26.07	Zoology/animal biology		
	26.08	Genetics		Also include:
	26.09	Physiology, pathology, and related sciences	19.0504	Human nutrition
Computer and information sciences	11.01	Computer and information sciences, general	11.08	Computer software and media applications
	11.04	Information science/studies	11.09	Computer systems networking and telecommunications
	11.07	Computer science		
Engineering	14.01	Engineering, general	14.20	Metallurgical engineering
	14.02	Aerospace, aeronautical and astronautical engineering	14.21	Mining and mineral engineering
	14.03	Agricultural/biological engineering and bioengineering	14.22	Naval architecture and marine engineering
	14.04	Architectural engineering	14.23	Nuclear engineering
	14.05	Biomedical/medical engineering	14.24	Ocean engineering
	14.06	Ceramic sciences and engineering	14.25	Petroleum engineering
	14.07	Chemical engineering	14.27	Systems engineering
	14.08	Civil engineering	14.28	Textile sciences and engineering
	14.09	Computer engineering, general	14.31	Materials science
	14.10	Electrical, electronics and communications engineering	14.32	Polymer/plastics engineering
	14.11	Engineering mechanics	14.33	Construction engineering
	14.12	Engineering physics	14.34	Forest engineering
	14.13	Engineering science	14.35	Industrial engineering
	14.14	Environmental/environmental health engineering	14.36	Manufacturing engineering
	14.18	Materials engineering	14.37	Operations research
	14.19	Mechanical engineering	14.38	Surveying engineering
			14.39	Geological/geophysical engineering
			14.99	Engineering, other
	Health and clinical sciences	51.02	Communication disorders sciences and services	51.19
51.04		Dentistry	51.20	Pharmacy, pharmaceutical sciences, and administration
51.05		Advanced/graduate dentistry and oral sciences	51.21	Podiatric medicine/podiatry
51.09		Allied health diagnostic, intervention, and treatment professions	51.22	Public health
51.10		Clinical/medical laboratory science and allied professions	51.23	Rehabilitation and therapeutic professions
51.12		Medicine	51.24	Veterinary medicine
51.14		Medical clinical sciences/graduate medical studies	51.25	Veterinary biomedical and clinical sciences
51.16		Nursing	51.27	Medical illustration and informatics
51.17		Optometry		Also include:
			31.0505	Kinesiology and exercise science

NSF field of S&E	NCES CIP 2000 classification	
Mathematics and statistics	27.01 Mathematics 27.03 Applied mathematics	27.05 Statistics 27.99 Mathematics and statistics, other
Physical sciences	Group 1 40.04 Atmospheric sciences and meteorology 40.06 Geological and earth sciences/geosciences (includes oceanography) ----- Group 2 40.01 Physical sciences, general 40.02 Astronomy and astrophysics 40.05 Chemistry 40.08 Physics 40.99 Physical sciences, other	
Psychology	42.01 Psychology, general 42.02 Clinical psychology 42.03 Cognitive psychology and psycholinguistics 42.04 Community psychology 42.05 Comparative psychology 42.06 Counseling psychology 42.07 Developmental and child psychology 42.08 Experimental psychology 42.09 Industrial and organizational psychology 42.10 Personality psychology 42.11 Physiological psychology/psychobiology 42.16 Social psychology	42.17 School psychology 42.18 Educational psychology 42.19 Psychometrics and quantitative psychology 42.20 Clinical child psychology 42.21 Environmental psychology 42.22 Geropsychology 42.23 Health psychology 42.24 Psychopharmacology 42.25 Family psychology 42.26 Forensic psychology 42.99 Psychology, other
Social sciences	45.01 Social sciences, general 45.02 Anthropology 45.03 Archeology 45.04 Criminology 45.05 Demography and population studies 45.06 Economics 45.07 Geography and cartography 45.09 International relations and affairs 45.10 Political science and government	45.11 Sociology 45.12 Urban studies/affairs 45.99 Social sciences, other Also include: 43.0106 Forensic science and technology 43.0107 Criminal justice/police science 43.0111 Criminalistics and criminal science
Other sciences	Use this category when multidisciplinary, interdisciplinary, or other aspects make classification under one primary field impossible.	

Thank you. This is the end of Part 1. Part 2, which is bound separately, covers your institution's computing and networking capacity.





