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United States Federal Government Funding  
Programmes  
open to  
European Researchers

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The Link2US Project seeks to enhance U.S.-European Union science and technology cooperation by increasing awareness of and addressing barriers to European scientists and researcher organizations' in U.S. Federal cooperative research funding schemes.

**The Link2US Project will:**

- ◇ Map opportunities of U.S. Federal collaborative funding schemes and rules for participation through research and analyses.
- ◇ Raise awareness among the European scientific community by disseminating information about programmes and funding opportunities through a multi-faceted network.
- ◇ Identify and analyze potential obstacles to cooperation through these programmes and funding schemes so that they may be avoided and/or that solutions may be found.

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*The Link2US project is coordinated by the American Association for the Advancement of Science (AAAS), in partnership with the Austrian Research Promotion Agency (FFG), the Hungarian Science and Technology Foundation (TETALAP) and the Agency for the Promotion of European Research (APRE) of Italy.*

**DISCLAIMER**

*The information contained within this catalogue has been compiled from public sources and communications with funding entities. This catalogue is not an official publication of any U.S. Federal Government Entity. Any error within the catalogue is the fault of the author.*



## Foreword

The European Union and the United States first entered into a Science and Technology (S&T) Cooperation Agreement in 1998. The S&T Agreement has been most recently renewed in 2009, for another five year period, and encourages wide-ranging research ties between the two sides. Given the decentralized nature of the U.S. research funding system, there is a need for greater visibility of the varied funding programmes that can support international cooperation.

In order to enhance EU-U.S. cooperation, this funding catalogue has been designed with the primary objective of improving the

awareness of scientists and research organisations in the EU about U.S. federal level collaborative funding schemes.

This catalogue introduces U.S. national funding programme opportunities that are open to researchers and research organisations, that are based in the EU, and provides easily accessible information. These programmes are listed by thematic research area. For each programme, detailed information is provided, including fields of funding, eligibility conditions of European researchers, participation rules, duration of funding, budget and information sources and links.





# Introduction

The United States national science and technology system is highly decentralised, with funding authority spread across a dozen or more cabinet departments, executive agencies (e.g. National Science Foundation and Environmental Protection Agency), and other sub-units (e.g. National Institutes of Health in the Department of Health and Human Services).

In order to identify the U.S. funding programmes open to researcher and research organisations based in the EU, 11 U.S. federal government entities have been surveyed through web resources, in-person interviews as well as interviews via telephone and email. While the U.S. has more than 11 federal government funding entities that fund R&D, this number surveyed represents the largest civilian funders:







1. Department of Energy (DOE)
2. Department of Homeland Security (DHS)

3. Department of Transportation (DOT)
4. Environmental Protection Agency (EPA)
5. National Aeronautics and Space Administration (NASA)
6. National Institutes of Health (NIH)
7. National Institute of Standards and Technology (NIST)
8. National Oceanic and Atmospheric Administration (NOAA)
9. National Science Foundation (NSF)
10. U.S. Department of Agriculture (USDA)
11. U.S. Geological Survey (USGS)

The survey resulted in a total of 11 funding programmes within six US federal government entities with current programmes that are open to European researchers. The identified research thematic areas are: Energy, Environment, Health (including biomedicine), Nanosciences Nanotechnologies Materials and new Production Technologies (NMP), Security and Space. The majority of programmes are focused in the Health theme.

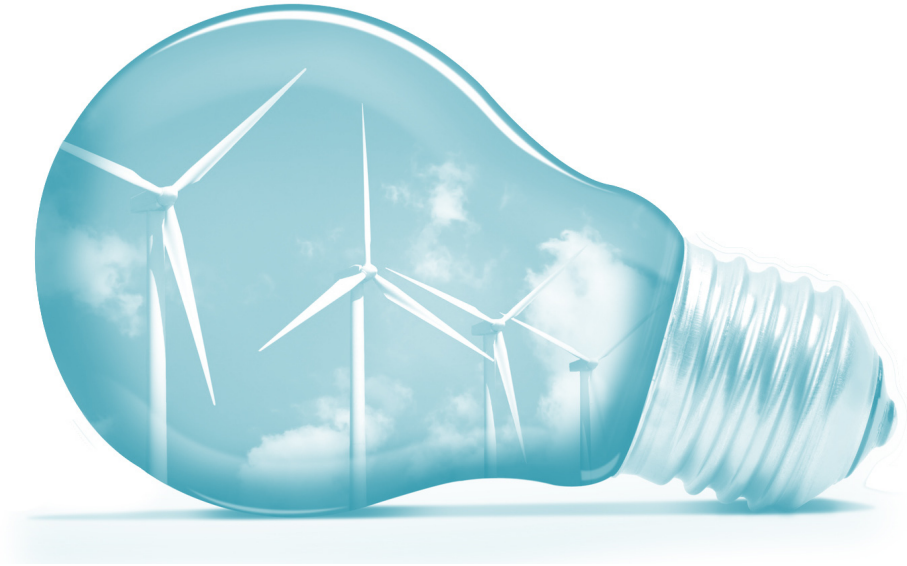


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ENERGY





# ENERGY

The Department of Energy's (DOE) overarching mission is to advance the national, economic, and energy security of the United States, to promote scientific and technological innovation in support of that mission, and to ensure the environmental cleanup of the national nuclear weapons complex. The Department's strategic goals to achieve the mission are designed to deliver results along five strategic themes:

- ◇ **Energy Security:** Promoting America's energy security through reliable, clean, and affordable energy
- ◇ **Nuclear Security:** Ensuring America's nuclear security
- ◇ **Scientific Discovery and Innovation:** Strengthening U.S. scientific discovery, economic competitiveness, and improving quality of life through innovations in science and

technology

- ◇ **Environmental Responsibility:** Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production
- ◇ **Management Excellence:** Enabling the mission through sound management

THERE ARE 3 DIFFERENT FUNDING PROGRAMMES OPEN TO EU RESEARCH COMMUNITY:

1. Office of Science Financial Assistance Program (DOE-Office of Science)
2. Office of Energy Efficiency and Renewable Energy (DOE - EERE)
3. Office of Fossil Energy (DOE-NETL)

# 1 Office of Science Financial Assistance Program (DOE-Office of Science)

The Office of Science is the single largest supporter of basic research in the physical sciences in the United States, providing more than 40 percent of total funding for this vital area of national importance. It oversees – and is the principal

federal funding agency of – the Nation’s research programs in high-energy physics, nuclear physics, and fusion energy sciences.

## Fields/areas of funding

The Office of Science of the DOE has announced the following areas it is interested in receiving grant applications for: Advanced Scientific Computing Biological and Environmental Research, Basic Energy Sciences, Fusion Energy Sciences, High Energy Physics, Nuclear Physics, and Workforce Development for Teachers and Scientists.

## Budget

The budget amount devoted to intramural and extramural R&D programs for the DOE Office of Science in FY 2010 is \$4.431 billion. It is anticipated that approximately \$400 million will be available for grant and cooperative agreement awards in FY 2010.

## Eligibility conditions for EU researchers/research organizations

Only other Federal Agencies and contractors are restricted from applying. In general there are no restrictions on non U.S. entities, unless other specific eligibility restrictions are listed on an individual call.

## Duration of funding

Varies.

## Conditions for funding (also for EU researchers)

The application deadline is currently set at September 30, 2010, 8:00 PM Eastern Time.

Please note that the current announcement for the Office of Science Financial Assistance Program will remain open until September 30, 2010, or until it is succeeded by another issuance, whichever occurs first. The funding Announcement will be posted annually and will remain in effect until it is succeeded by another issuance by the Office of Science, usually published after the beginning of the Fiscal Year (October 1, 2010).

Applications must be submitted through Grants.gov to be considered for an award.

## More information and links

**Website:** <http://www.er.doe.gov/>

**Contact information:** varies depending on topic area

Please see the specific contact information under each program: <http://www.sc.doe.gov/grants/FOA-10-0000178.html>  
Program area descriptions:

<http://www.science.doe.gov/grants/progdesc.html>

**Foreign grant information:**

<http://www.sc.doe.gov/grants/FOA-10-0000178.html>

# 2 Office of Energy Efficiency and Renewable Energy (DOE - EERE)

The Office of Energy Efficiency and Renewable Energy (EERE) works with business, industry, universities, and others to increase the use of renewable energy and energy efficiency technologies. One way EERE encourages the growth of these

technologies is by offering financial assistance opportunities for their development and demonstration.

## Fields/areas of funding

Alternative and renewable energy, energy efficiency, business development, and superconductivity.

## Budget

The overall budget for Fiscal Year (FY) 2010 for the DOE - EERE was \$1.109 billion. In FY 2009, more than \$2.2 billion in federal funding was awarded to businesses, industries, universities and others through EERE financial assistance programs.

## Duration of funding

Varies.

## Conditions of funding

EERE uses two methods funding proposals: competitive and noncompetitive. Non U.S. entities are eligible in general to apply for competitive grants (unless otherwise specified in the funding announcement), which are the most common type of financial assistance awarded by EERE. Competitive cooperative agreements are handled in the same manner.

## Eligibility conditions for EU researchers

In regards to noncompetitive proposals, non U.S. entities are not eligible to apply as the Principal Investigator (PI). However they may be eligible to receive funding as a subcontractor. Noncompetitive grants are rare.

### More information and links

**Website:** <http://www.eere.energy.gov/>

**Contact information:** Tobin Gatto

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EE-3A/Forrestal Building

Department of Energy Washington, DC 20585

+1 (202) 586-9957

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+ 1 (202) 586-3835

# 3 Office of Fossil Energy (DOE-NETL)

Most R&D procurements and competitive solicitations for the Office of Fossil Energy are coordinated by the National Energy Technology Laboratory (NETL). As part of DOE's national laboratory system, NETL supports DOE's mission to advance the national, economic, and energy security of the

United States. Through onsite and contracted research, NETL develops technologies to resolve the environmental, supply, and reliability constraints of producing and using fossil resources.

## Fields/areas of funding

Office of Fossil Energy funding areas:

- ◇ Fossil Energy
- ◇ Clean Coal & Natural Gas Power Systems
- ◇ Carbon Sequestration
- ◇ Hydrogen & Other Clean Fuels
- ◇ Oil & Natural Gas Supply & Delivery
- ◇ Natural Gas Regulation
- ◇ U.S. Petroleum Reserves.

## Budget

\$405 million for FY2010.

## Eligibility conditions for EU researchers/research organizations

In general there are no restrictions on non U.S. entities, unless other specific eligibility restrictions are listed on an individual call. Non U.S. entities are eligible to apply to unsolicited calls as well.

## Duration of funding

Varies.

## More information and links

**Website:** : <http://www.fossil.energy.gov/index.html>**Contact**

**Contact information**

**For solicited proposals:** Customer Service Line: (800) 553-7681

**For unsolicited proposals:** John Augustine +1 412 386-4524, [john.augustine@netl.doe.gov](mailto:john.augustine@netl.doe.gov)

**Foreign grants information:**

**For solicited proposals:** <http://www.netl.doe.gov/business/solicitations/index.html>

**For unsolicited proposals:** <http://www.netl.doe.gov/business/usp/USPGuide.pdf>

ENVIRONMENT/  
CLIMATE CHANGE/  
NANOTECHNOLOGY



# ENVIRONMENT/CLIMATE CHANGE/ NANOTECHNOLOGY

The Environmental Protection Agency (EPA) leads the nation's environmental science, research, education and assessment efforts. The mission of the EPA is to protect human health

and the environment. Since 1970, EPA has been working for a cleaner, healthier environment for the American people.

## 1 Science to Achieve Results (STAR) Program

The Science to Achieve Results or STAR program funds research grants and graduate fellowships in numerous environmental science and engineering disciplines through a competitive solicitation process and independent peer

review. The program engages the nation's best scientists and engineers in targeted research that complements EPA's own outstanding intramural research program and those of our partners in other federal agencies.

## Fields/areas of funding

At present, STAR is focusing on the health effects of particulate matter, drinking water, water quality, global change, ecosystem assessment and restoration, human health risk assessment, endocrine disrupting chemicals, pollution prevention and new technologies, children's health, and socio-economic research.

EPA, along with the National Science Foundation and the US Department of Agriculture, launched a Nanoscale Science and Engineering joint call solicitation in October 2000 (the start of fiscal 2001 in the USA) with the European Commission. The joint call for US participants for 2010 has just closed. The US is considering whether to continue this program next year and would like to eventually extend it to involve other agencies that are part of the National Nanotechnology Initiative within the US.

## Budget

The overall budget for Fiscal Year (FY) 2010 for the EPA was \$10.29 million, with the R&D budget being \$594 million. For the STAR Program grants, the EPA funds an average of 10% - 12% of the applications that are received; the amount can be as high as 25% depending on the RFA and the available funding.

## Eligibility conditions for EU researchers

European institutions are not eligible to receive funding, though in the future there may be coordinated calls with the EC. See below for further information. Academic and not-for-profit institutions located in the U.S., and state, local or tribal governments are eligible.

Generally, profit-making firms are not eligible to receive grants from EPA under this program but see specifics in the Request for Applications. Federal agencies and national laboratories

funded by federal agencies (Federally-funded Research and Development Centers, FFRDCs) may not apply.

## Conditions for funding

This is a collaborative funding opportunity.

STAR research is funded through Requests for Applications (RFAs) only. They are also only given to Institutions rather than individuals. Funds can be allocated to collaborating institutions using subgrants/subawards.

Each year since 2000, EPA along with the National Science Foundation (NSF) and the US Department of Agriculture (USAID), in conjunction with the European Commission (EC), have issued a joint call regarding funding for nanotechnology. Thus far the two funding agencies have organised separate, but simultaneous and coordinated evaluations of the proposals according to their own rules. Full proposals from US counterparts need to be submitted through the EPA, according to their guidelines. European Union participants must submit full proposals to the EC while following their submission process. If partnering with a researcher(s) from the US, the technical part should be common for both proposals.

## Duration of funding

Varies.

### More information and links

**Web site:** <http://www.epa.gov/>

**For General Information about EPA extramural funding:**  
[http://www.epa.gov/ncer/contact\\_us.html](http://www.epa.gov/ncer/contact_us.html)

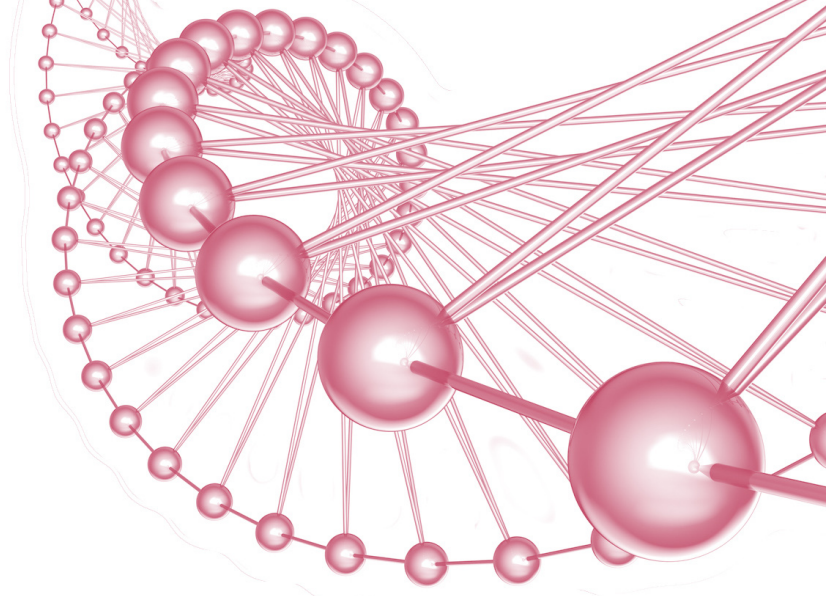
**For nanotechnology:** Mihail Roco, mroco@nsf.gov, phone: +1-703-292-8301

**Foreign grants information:**

<http://www.epa.gov/ncer/rfa/#CurrentStar>

HEALTH  
(INCLUDING  
BIOMEDICINE)





# HEALTH (INCLUDING BIOMEDICINE)

The National Institutes of Health (NIH), part of the United States Department of Health & Human Services, is the primary U.S. Federal agency for conducting and supporting medical research. To realize its mission of extending healthy life and reducing the burdens of illness and disability, NIH funds grants, cooperative agreements, and contracts that support the advancement of fundamental knowledge about the nature and behavior of living systems. The 27 Institutes

and Centers of NIH provide leadership and financial support to researchers both inside and outside the United States: approximately 80% of NIH funding goes to research grants in all U.S. states and territories, as well as nations throughout the world.

**THERE ARE A TOTAL OF 11 FUNDING PROGRAMMES OPEN TO EU RESEARCHERS.**

## More information

Web site: <http://www.nih.gov/>

For general information about NIH extramural grant funding:

[grantsinfo@od.nih.gov](mailto:grantsinfo@od.nih.gov); Tel: +1 (301) 435-0714

<http://grants.nih.gov/grants/contacts.htm>

Foreign grants information:

<http://grants.nih.gov/grants/foreign/index.htm>

<http://grants.nih.gov/grants/funding/r01.htm>

<http://grants.nih.gov/grants/guide/pa-files/PA-10-067.html>

[http://grants.nih.gov/grants/guide/search\\_results.htm?year=active&scope=rfa](http://grants.nih.gov/grants/guide/search_results.htm?year=active&scope=rfa)

# 1 NIH Research Project Grant Program (R01)

The Research Project Grant (R01) is the original and historically oldest grant mechanism used by NIH. The R01 provides support for health-related research and development based on the mission of the NIH. R01s can be investigator-initiated or can be in response to a program announcement or request for application. The R01 research plan proposed by the applicant must be related to the stated program interests

of one or more of the NIH Institutes and Centers based on descriptions of their programs.

The Research Project (R01) grant is an award made to support a discrete, specified, circumscribed project to be performed by the named investigator(s) in an area representing the investigator's specific interest and competencies, based on the mission of the NIH.

## Fields/areas of funding

All Institutes and most Centers at NIH support the R01 grant mechanism. The following NIH Offices of the Director do not accept unsolicited proposals, but do put out Funding Opportunity Announcements (FOAs):

- ◇ Office of Behavioral and Social Sciences Research (OBSSR)
- ◇ Office of Disease Prevention (ODP)
- ◇ Office of Rare Diseases (ORD)
- ◇ Office of Dietary Supplements (ODS)
- ◇ Office of Research on Women's Health (ORWH)

## Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH for FY 2010 is \$30.361 billion. Applications for an R01 award are not limited in dollars but need to reflect the actual needs of the proposed project. Modular applications are most prevalent with modules of \$25,000, up to the modular limit of \$250,000. In 2008 the R01 funded 27,012 awards totaling \$9,956,033,585.

## Conditions for funding

R01s can be applied for in two separate ways, either investigator initiated or in response to a specific Funding Opportunity Announcement (FOA).

NIH welcomes unsolicited, investigator-initiated applications. General-use "Parent Announcements" have been created with application packages appropriate for submission of unsolicited research applications. The R01 "Parent Announcement" is PA-10-067. Investigators can apply in response to either the R01 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the R01 mechanism.

FOA: All applications, including those that are investigator-initiated, need to be submitted on Grants.gov in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and Contracts. Only the specific application package posted with the FOA can be used for submission.

## ■ Duration of funding

Applications are generally awarded for 1 - 5 budget periods, each normally 12 months in duration. Applications can be renewed by competing for an additional project period. Supplements and amendments are allowed.

## ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations, are eligible to apply for this research project grant.

# 2 NIH Small Grant Program (R03)

The R03 grant mechanism supports small research projects that can be carried out in a short period of time with limited resources.

## ■ Fields/areas of funding

Please see the funding website for the specific areas that are funded: <http://grants.nih.gov/grants/funding/r03.htm> (the information is located towards the bottom of the page under R03 Participating Institutes and Centers and R03 Non-Participating Institutes and Centers).

## ■ Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH for FY 2010 is \$30.361 billion. The R03 supports a budget for direct costs of up to two \$25,000 modules or \$50,000 per year. In 2008 the R03 funded 1,479 awards totaling \$107,464,019

## ■ Duration of funding

Supports a project period of up to two years. An R03 cannot be renewed.

## ■ Conditions for funding

R03s can be applied for in two separate ways, either investigator initiated or in response to a specific Funding Opportunity Announcement (FOA).

NIH welcomes unsolicited, investigator-initiated applications. General-use “Parent Announcements” have been created with application packages appropriate for submission of unsolicited research applications. The R03 “Parent Announcement” is PA-10-064. Investigators can apply in response to either the R03 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the

R03 mechanism.

FOA: The Grants.gov model requires that all applications, including those that are investigator-initiated, be submitted in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and Contracts. Only the specific application package posted with the FOA can be used for submission. Investigators are strongly encouraged to consult with the appropriate NIH program administrator about their proposed

research project during the concept development stage of the application.

### ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations are eligible to apply for this research project grant.

## 3 NIH Exploratory/Developmental Research Grant Award (R21)

The R21 grant mechanism is intended to encourage exploratory/developmental research by providing support for the early and conceptual stages of project development. Its scope is:

-Exploratory, novel studies that break new ground or extend previous discoveries toward new directions or applications.

-High risk high reward studies that may lead to a breakthrough in a particular area, or result in novel techniques, agents, methodologies, models or applications that will impact biomedical, behavioral, or clinical research.

-Projects should be distinct from those supported through the traditional R01 mechanism.

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### ■ Fields/areas of funding

Please see the funding website for the specific areas that are funded: <http://grants.nih.gov/grants/funding/r21.htm> (the information is located towards the bottom of the page under R21 Participating Institutes and Centers and R21 Non-Participating Institutes and Centers).

### ■ Budget

The overall budget amount devoted to intramural and extramural R&D programs for NIH in FY 2010 is \$30.361

billion. The combined budget for direct costs for the two year project period may not exceed \$275,000. No more than \$200,000 may be requested in any single year. In 2008 the R21 funded 3,649 awards totaling \$736,213,063.

### ■ Conditions for funding

R21s can be applied for in two separate ways, either investigator initiated or in response to a specific Funding Opportunity Announcement (FOA).

NIH welcomes unsolicited, investigator-initiated applications.

General-use “Parent Announcements” have been created with application packages appropriate for submission of unsolicited research applications. The R21 “Parent Announcement” is PA-10-069. Investigators can apply in response to either the R21 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the R21 mechanism.

FOA: To apply, one has to go through grants.gov. Grants.gov requires that all applications, including those that are investigator-initiated, be submitted in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and

Contracts. Only the specific application package posted with the FOA can be used for submission.

### ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations are eligible to apply for this research project grant.

### ■ Duration of funding

A project period can last up to two years.

## 4 Exploratory/Developmental Grants Phase II (R33)

The R33 award is to provide a second phase for the support for innovative exploratory and development research activities initiated under the R21 mechanism. Although only R21 awardees are generally eligible to apply for R33 support,

specific program initiatives may establish eligibility criteria under which applications could be accepted from applicants demonstrating progress equivalent to that expected under R33.

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### ■ Fields/areas of funding

Please see the funding website for the specific areas that are funded: <http://grants.nih.gov/grants/funding/r33.htm> (the information is located towards the bottom of the page under R33 Participating Institutes and Centers and R33 Non-Participating Institutes and Centers).

### ■ Conditions for funding

R33s can be applied for in response to a specific Funding Opportunity Announcement (FOA).

FOA: To apply, one has to go through grants.gov. Grants.gov requires that all applications, including those that are investigator-initiated, be submitted in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and

Contracts. Only the specific application package posted with the FOA can be used for submission.

## ■ Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH in FY 2010 is \$30.361 billion. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism, numbers, quality, duration, and costs of the

applications received. In 2008 the R33 funded 142 awards totaling \$52,825,298.

## ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations are eligible to apply for this research project grant.

## ■ Duration of funding

3 years.

# 5 NIH Clinical Trial Planning Grant Program (R34)

The NIH Clinical Trial Planning Grant Program (R34) supports development of Phase III clinical trials. This program supports the:

- ◇ establishment of the research team,
- ◇ development of tools for data management and research oversight

- ◇ definition of recruitment strategies,
- ◇ finalization of the protocol
- ◇ preparation of an operations/procedures manual

The Clinical Trial Planning Grant is not designed for the collection of preliminary data or the conduct of pilot studies to support the rationale for a clinical trial.

## ■ Fields/areas of funding

Please see the funding website for the specific areas that are funded: <http://grants.nih.gov/grants/funding/r34.htm> (the information is located towards the bottom of the page under R34 Participating Institutes and Centers and R03 Non-Participating Institutes and Centers).

## ■ Conditions for funding

R34s can be applied for in two separate ways, either investigator initiated or in response to a specific Funding Opportunity Announcement (FOA). NIH welcomes unsolicited, investigator-initiated applications. General-use “Parent Announcements” have been created with application packages appropriate for submission of unsolicited research applications. The R34 “Parent Announcement” is PA-09-186.

Investigators can apply in response to either the R34 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the R34 mechanism.

FOA: To apply, one has to go through grants.gov. Grants.gov requires that all applications, including those that are investigator-initiated, be submitted in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and Contracts. Only the specific application package posted with the FOA can be used for submission.

### ■ Duration of funding

1 year.

### ■ Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH in FY 2010 is \$30.361 billion. A budget for direct costs up to four \$25,000 modules or \$100,000 per year. In 2008 the R34 funded 164 awards totaling \$34,929,604.

### ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations are eligible to apply for this research project grant.

## 6 Research Project Cooperative Agreement (U01)

The U01 supports discrete, specified, circumscribed projects to be performed by investigator(s) in an area representing their specific interests and competencies. It is used when

substantial programmatic involvement is anticipated between the awarding Institute and Center.

### ■ Fields/areas of funding

Varies. It appears all centers are open for potential cooperative agreements. For detailed information: <http://www.nih.gov/icd/>

Announcements (FOA), there is no specific dollar limit. In 2008 the U01 funded 1,555 awards totaling \$744,384,672.

### ■ Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH in FY 2010 is \$30.361 billion. Unless limited in the Funding Opportunity

### ■ Eligibility conditions for EU researchers

Foreign institutions and international organizations, including public or private non-profit or for-profit organizations are eligible to apply for this research project grant.

## ■ Conditions for funding

R34s can be applied for in two separate ways, either investigator initiated or in response to a specific Funding Opportunity Announcement (FOA). NIH welcomes unsolicited, investigator-initiated applications. General-use “Parent Announcements” have been created with application packages appropriate for submission of unsolicited research applications. The R34 “Parent Announcement” is PA-09-186. Investigators can apply in response to either the R34 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs)

may also utilize the R34 mechanism.

FOA: To apply, one has to go through grants.gov. Grants.gov requires that all applications, including those that are investigator-initiated, be submitted in response to a specific Funding Opportunity Announcement (FOA). The FOAs are posted on Grants.gov and the NIH Guide for Grants and Contracts. Only the specific application package posted with the FOA can be used for submission.

## ■ Duration of funding

1 year.

# 7 NIH Support for Conferences and Scientific Meetings (R13/U13)

(opened just for partnerships in the organisation of EU conferences)

The NIH recognizes the value of supporting scientific meetings that are relevant to its scientific mission and to the public health. A scientific meeting is defined as a gathering, symposium, seminar, conference, workshop, or any other organized, formal meeting where persons assemble to coordinate, exchange, and disseminate information or to explore or clarify a defined subject, problem, or area of knowledge. The support of scientific meetings is contingent on the scientific interests and priorities of the individual Institutes and Centers (IC), and the level of investment that

each Institute determines is appropriate.

An R13 is awarded to support an investigator-initiated conference grant. A U13 is a cooperative agreement award mechanism in which the Principal Investigator retains the primary responsibility and dominant role for planning, directing, and executing the proposed project, with NIH staff being substantially involved as a partner with the Principal Investigator. The Institute/Center Conference Grant Contact or program staff should be contacted for further discussion.



## Fields/areas of funding

Please see the funding website for the specific areas that are funded:

[http://grants.nih.gov/grants/guide/contacts/parent\\_R13\\_U13.html](http://grants.nih.gov/grants/guide/contacts/parent_R13_U13.html)

## Budget

The overall budget amount devoted to intramural and extramural R&D programs for the NIH in FY 2010 is \$30.361 billion. Each Institute/Center has programmatic guidelines. It is important to review the information on the Conference Grant.

Website <http://grants1.nih.gov/grants/funding/r13/index.htm>

In 2008 the R13 funded 556 awards totaling \$14,215,009.

## Eligibility conditions for EU researchers

Domestic organizations eligible to receive grants from NIH, including scientific or professional societies, are eligible to apply for conference grants. Both domestic and international conferences may be supported; however, an international conference can be supported only through the U.S. representative organization of an established international scientific or professional society. For example, an international conference outside of the U.S. can be supported only if the applicant organization is domestic (professional society or university).

## Conditions for funding

This is a cooperative funding opportunity.

NIH welcomes unsolicited, investigator-initiated applications. General-use “Parent Announcements” have been created with application packages appropriate for submission of unsolicited research applications. The R13/U13 “Parent Announcement” is PA-10-071. Investigators can apply in response to either the R13/U13 Parent Announcement or a Program Announcement highlighting particular scientific areas. Requests for Applications (RFAs) may also utilize the R13/U13 mechanism.

A conference grant application is required to contain a letter from the appropriate NIH staff ) documenting advance permission. Investigators are urged to initiate contact well in advance of the application receipt date.

*Standard application deadlines:*

*April 12, August 12, and December 12*

*AIDS-related research deadlines:*

*May 7, September 7, and January 7*

## Duration of funding

Up to five years.

## OTHER AGREEMENTS

The National Institutes of Health (NIH) has four other funding opportunities open to EU researchers:

- U10: Cooperative Clinical Research–Cooperative Agreements
- U19: U19: Research Program–Cooperative Agreements
- U54: Specialized Center–Cooperative Agreements
- UC1: NIH Challenge Grants and Partnerships Program - Phase II-Cooperative Agreement

All of these programs fall under the Cooperative Agreements

Series (U). Detailed information is only available within the specific Funding Opportunity Announcements (FOAs). As a result attention must be paid to the specific details in each FOA that is put out by NIH under these programs. The FOAs are posted on Grants.gov and the NIH Guide for Grants and Contracts. Only the specific application package posted with the FOA can be used for submission.

Please contact GrantsInfo@nih.gov for further information.

### 8) U10: Cooperative Clinical Research—Cooperative Agreements

To support clinical evaluation of various methods of therapy and/or prevention in specific disease areas. These represent cooperative programs between sponsoring institutions

and participating principal investigators, and are usually conducted under established protocols.

### 9) U19: Research Program--Cooperative Agreements

To support a research program of multiple projects directed toward a specific major objective, basic theme or program goal, requiring a broadly based, multidisciplinary and often long-term approach. A cooperative agreement research program generally involves the organized efforts

of large groups, members of which are conducting research projects designed to elucidate the various aspects of a specific objective. Substantial Federal programmatic staff involvement is intended to assist investigators during performance of the research activities, as defined in the

terms and conditions of award. The investigators have primary authorities and responsibilities to define research objectives and approaches, and to plan, conduct, analyze, and publish results, interpretations and conclusions of their studies. Each research project is usually under the leadership of an established investigator in an area representing his/her special interest and competencies. Each project supported

through this mechanism should contribute to or be directly related to the common theme of the total research effort. The award can provide support for certain basic shared resources, including clinical components, which facilitate the total research effort. These scientifically meritorious projects should demonstrate an essential element of unity and interdependence.

## 10) U54: Specialized Center--Cooperative Agreements

To support any part of the full range of research and development from very basic to clinical; may involve ancillary supportive activities such as protracted patient care necessary to the primary research or R&D effort. The spectrum of activities comprises a multidisciplinary attack on a specific disease entity or biomedical problem area. These differ from program project in that they are usually developed

in response to an announcement of the programmatic needs of an Institute or Division and subsequently receive continuous attention from its staff. Centers may also serve as regional or national resources for special research purposes, with funding component staff helping to identify appropriate priority needs.

## 11) UC1: NIH Challenge Grants and Partnerships Program - Phase II-Cooperative Agreement

To promote the implementation of joint ventures between the NIH and both domestic and global entities to facilitate rapid implementation of R&D in biomedical or biotechnology projects for infectious diseases that benefit public health and have a commercial potential that otherwise could not have been attained without matching funds. Essential elements of grantee responsibility would include: 1) interim research

and development of target goals upon whose achievement funds would be incrementally released to the awardee; 2) a single principle investigator who would be scientifically and administratively responsible for the project's research and development, and 3) a single applicant organization that would be legally and financially responsible for the funds awarded.

NANOTECHNOLOGY/  
INFORMATION AND  
COMMUNICATION  
TECHNOLOGY/  
MATERIALS



# NANOTECHNOLOGY INFORMATION AND COMMUNICATION TECHNOLOGY MATERIALS

The National Science Foundation (NSF) is the only federal agency whose mission includes support for all fields of fundamental science and engineering, except for medical sciences. They are tasked with keeping the United States at the leading edge of discovery in areas from astronomy to geology to zoology. In addition to funding research in the traditional academic areas, the agency also supports "high-risk, high pay-off" ideas, novel collaborations and numerous projects. NSF is broken up into

eight general areas: Directorate for Biological Sciences (BIO), Directorate for Computer and Information Sciences (CISE), Crosscutting Programs, Directorate for Education and Human Resources (EHR), Directorate for Engineering (ENG), Directorate for Geosciences (GEO), Office of International Science and Engineering (OISE), Directorate for Mathematics and Physical Sciences (MPS), Office of Polar Programs (OPP), and Directorate for Social, Behavioral and Economic Sciences (SBE).

## Fields/areas of funding

The NSF and EC continue to work together in the areas of material science, nanotechnology, and environmental issues.

## Budget

The overall budget for Fiscal Year (FY) 2010 for the NSF was \$6.927 billion, while the budget amount devoted to R&D programs for FY2010 was \$5.188 billion. NSF receives approximately 40,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded.

## Eligibility conditions for EU researchers

NSF does not generally fund foreign institutions directly. NSF considers proposals for cooperative projects involving US and foreign organizations, provided support is requested only for the US portion of the collaborative effort.

## Conditions for funding

Each year since 2000, NSF along with the US Environmental Protection Agency (EPA) and the US Department of Agriculture (USDA), in conjunction with the European Commission (EC), has issued a joint call regarding funding for nanotechnology. Thus far the two funding agencies have organised separate, but simultaneous and coordinated evaluation of the proposals according to their own rules. Full proposals from US counterparts need to be submitted through the EPA, according to their guidelines. European Union participants must submit full proposals to the EC while following their submission process. If partnering with a researcher(s) from the US, the

technical part should be common for both proposals.

U.S. based PI's may also include international components in new proposals submitted to any relevant NSF program, or request supplemental funding for projects already supported by NSF. Investigators should consult early in the application process with both the disciplinary program manager and OISE country program manager.

Foreign researchers can be part of NSF funded projects awarded to U.S. institutions as senior researchers, postdoctoral fellows, or subcontractors. A foreign organization could be a subawardee but could only recover direct costs.

NSF, along with the Environmental Protection Agency and the US Department of Agriculture, launched a Nanoscale Science and Engineering joint call solicitation in October 2000 (the start of fiscal 2001 in the US) with the EC. The joint call for US participants for 2010 has just closed. The US is considering whether to continue this program next year and would like to eventually extend it to involve other agencies that are part of the National Nanotechnology Initiative within the US.

## Duration of funding

Varies.

### More information and links

**Website:** <http://www.nsf.gov/index.jsp>

For General Information about EPA extramural funding, please contact the NSF Information Center at (703) 292-5111, or send email to [info@nsf.gov](mailto:info@nsf.gov)

For nanotechnology: Mihail Roco, [mroco@nsf.gov](mailto:mroco@nsf.gov), phone: +1-703-292-8301

#### FOREIGN GRANTS INFORMATION

NSF: <http://www.nsf.gov/div/index.jsp?div=OISENanotechnology>  
call: [http://epa.gov/ncer/rfa/2010/2010\\_star\\_nano.html](http://epa.gov/ncer/rfa/2010/2010_star_nano.html)

SECURITY

The background is a solid golden-yellow color. It features several thin, light-colored lines that flow and curve across the frame, creating a sense of motion and depth. A large, faint white circle is centered in the background, partially obscured by the flowing lines. The overall aesthetic is clean, modern, and professional.



# SECURITY

The Department of Homeland Security (DHS) has a vital mission: to secure the nation from the many threats the U.S. faces. This requires the dedication of more than 230,000 employees in jobs that range from aviation and border

security to emergency response, from cyber security analyst to chemical facility inspector. DHS's duties are wide-ranging, but its goal is clear – keeping America safe.

## Science and Technology Directorate - International Cooperative Programs Office

The Department of Homeland Security (DHS) Science and Technology (S&T) Directorate is soliciting applications for international research projects aligned with the mission and requirements of DHS S&T. These projects should be designed to augment and complement , through international research and collaboration, the depth and breadth of homeland security science and technology research.

Specifically, the S&T Directorate seeks proposals that will contribute to homeland security science and technology,

including but not limited to:

- ◇ Evaluation of novel tools or approaches to confronting homeland security challenges;
- ◇ Basic research to provide data, understandings, or models that support S&T efforts or policy decisions; and
- ◇ S&T and operations research evaluations to support revolutionary improvements in DHS's mission and its component agencies' operations.



## Fields/areas of funding

Focus of research for this announcement: International science and technology efforts, from basic research through proof-of-concept evaluations in support of at least one of the S&T Directorate's six Divisions: explosives, chemical and biological, command, control, and interoperability, borders and maritime security, human factors, and infrastructure and geophysical.

The following website addresses contain the latest summaries of both Basic Research Needs and High-Priority Technology Needs- that are essentially eligible topic areas:

[http://www.dhs.gov/xlibrary/assets/st\\_basic\\_research\\_focus\\_areas\\_may\\_2009.pdf](http://www.dhs.gov/xlibrary/assets/st_basic_research_focus_areas_may_2009.pdf)

[http://www.dhs.gov/xlibrary//assets/High\\_Priority\\_Technology\\_Needs.pdf](http://www.dhs.gov/xlibrary//assets/High_Priority_Technology_Needs.pdf)

## Budget

Subject to the availability of funds and receipt of its FY2011 appropriation, DHS estimates that up to \$1,600,000 will be available including all direct and indirect costs. It is estimated that approximately 2-4 grants will be awarded under this announcement. The maximum amount for an individual award made under this announcement will not exceed \$750,000 for total costs (direct and indirect costs). Individual awards may range from \$200,000 to \$750,000, but applications for lesser amounts will also be considered.

## Eligibility conditions for EU researchers

This funding opportunity is restricted to accredited institutions of higher education, both foreign and domestic, having the ability and capacity to conduct and facilitate substantial international research. A single accredited institution of higher education must be identified as the lead and the entity for proposal submission and subsequent discussions. Additional institutions associated with the lead institution will be sub-awards from the lead institution. Sub-awardees may include foreign public entities, foreign or domestic private entities, foreign governmental organizations, foreign or domestic businesses, (including small business and socially and economically disadvantaged small businesses), domestically federally funded research and development centers, and

other foreign or domestic accredited institutions of higher education. All proposals must include participation by both foreign and domestic institutions. DHS Centers of Excellence (COEs) are eligible to apply for new research efforts under this funding opportunity. They may not apply for research efforts already being funded.

## Conditions for funding

The application deadline is currently set at September 23, 2010, 11:59 PM Eastern Time.

Applicants are encouraged to align their research proposals under a single division in order to focus future research activities and resources. However, multiple division topics will be given equal consideration due to the variety of crosscutting science and technology research topics.

DHS expects all applicants to be able to begin performance within thirty days of receipt of grant award. Institutions requiring additional post-selection preparation time must note this in their initial proposal.

Applications must be submitted through Grants.gov to be considered for an award. The Funding Opportunity Number is: DHS-10-ST-108-001.

Link to the full announcement on grants.gov: <http://www.grants.gov/search/downloadAtt.do;jsessionid=TdBJLDLpWG052khM1THzJFGJwvcSWpddsrw0vpJDmcGzG3cxjrl-605969087?attId=37098>

## Duration of funding

One to three years depending on the effort proposed.

### More information and links

Website: [www.dhs.gov](http://www.dhs.gov)

Program Officer: Paul Ragsdale, Ph.D., +1 202-254-6301, [S&T-InternationalPograms@dhs.gov](mailto:S&T-InternationalPograms@dhs.gov)

Grants Officer: Melanie Bales, +1 202-447-5522, [melanie.bales@dhs.gov](mailto:melanie.bales@dhs.gov)

FOREIGN GRANTS INFORMATION:

[http://www.dhs.gov/xlibrary/assets/st\\_basic\\_research\\_focus\\_areas\\_may\\_2009.pdf](http://www.dhs.gov/xlibrary/assets/st_basic_research_focus_areas_may_2009.pdf)

[http://www.dhs.gov/xlibrary//assets/High\\_Priority\\_Technology\\_Needs.pdf](http://www.dhs.gov/xlibrary//assets/High_Priority_Technology_Needs.pdf)

<http://www.grants.gov/search/downloadAtt.do;jsessionid=TdBJLDLpWG052khM1THzJFGJwvcSWpddsrw0vpJDmcGzG3cxjrl-605969087?attId=37098>

SPACE

The image features a solid orange background. In the lower-left quadrant, there is a complex, abstract pattern of numerous thin, white, curved lines. These lines are arranged in a way that suggests a sense of depth and movement, resembling a tunnel or a series of overlapping, curved planes. The lines are most concentrated in the lower-left and gradually fade or become more sparse as they extend towards the right and top of the frame.



# SPACE

Since its inception in 1958, National Aeronautics and Space Administration (NASA) has accomplished many great scientific and technological feats in air and space. NASA technology also has been adapted for many non-aerospace uses by the

private sector. NASA remains a leading force in scientific research and in stimulating public interest in aerospace exploration, as well as science and technology in general.

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## Fields/areas of funding

### Office of Space Flight:

- ◇ Space Station
- ◇ Space Shuttle
- ◇ Space Communications
- ◇ Human Exploration
- ◇ Commercial Space Development

### Office of Aero-Space Technology:

- ◇ Civil Aviation, including aviation safety, environmental compatibility, aviation capacity and operations systems, affordable air travel
- ◇ Revolutionary Technology Leaps, including supersonic research, general aviation, design tools, X-planes

- ◇ Access to space including space launch, space vehicle technology for orbital transfer, interplanetary travel, and deep space travel
- ◇ Other areas of aerospace research: aerodynamics, aerothermodynamics, propulsion, structures, materials, flight control, rotocraft, information technology, vehicle health monitoring, cockpit displays and human factors

### Office of Space Science. Supporting Research, Theory, and Analysis in:

- ◇ Space Astrophysics
- ◇ Solar System Exploration
- ◇ Origins of Planetary Systems
- ◇ Astrobiology



- ◇ Solar and Heliospheric Physics
- ◇ Geospace Sciences
- ◇ Applied Information Systems

Office of Life & Microgravity Sciences & Applications:

- ◇ Biomedical Research and Countermeasures
- ◇ Fundamental Biology
- ◇ Advanced Human Support Technology
- ◇ Biotechnology
- ◇ Combustion Science
- ◇ Fluid Physics and Transport Phenomena
- ◇ Fundamental Physics
- ◇ Materials Science
- ◇ Life and Biomedical Sciences and Applications
- ◇ Microgravity Sciences and Applications

Office of Earth Science:

- ◇ Earth, Atmospheric, Oceanographic Science and Applications, Education

## Eligibility conditions for EU researchers

NASA's policy is to conduct research with foreign entities on a cooperative, no- exchange-of-funds basis. NASA does not normally fund foreign research proposals or foreign research efforts that are part of U.S. research proposals. Rather, cooperative research efforts are implemented via international agreements between NASA and the sponsoring foreign agency or funding/sponsoring institution under which the parties agree to each bear the cost of discharging their respective responsibilities. In accordance with the National Space Transportation Policy, use of a non-U.S. manufactured launch vehicle is permitted only on a no-exchange-of-funds basis. NASA funding is not normally used for subcontracted foreign research efforts. The direct purchase of supplies and/or services, which do not constitute research, from non-U.S. sources by U.S. award recipients is permitted.

## Conditions for funding

Non U.S. entities are allowed to submit unsolicited proposals. These proposals must be submitted in the same format as U.S. proposals and in U.S. dollars. All information should be typed and in English. The proposal should emphasize the unique nature of the project and/or the unique expertise of the proposer. Foreign proposals will go through the same evaluation and selection process as U.S.

Contact between the Proposer and NASA technical personnel is encouraged before an extensive effort is expended in preparing a detailed proposal. This preliminary contact allows the Proposer to find out what kind of work is currently being done in a particular field, if the work proposed is sufficiently related to current NASA mission goals to warrant a formal submission, the level of funding support currently being expended in that field, and whether NASA has any interest in the type of work being proposed. Such discussions, which convey to the potential Proposer an understanding of the Agency mission and needs relative to the type of effort contemplated, do not jeopardize the unsolicited status of any subsequently submitted proposal.

## Budget

The overall total research and development budget for Fiscal Year (FY) 2010 for NASA was \$11.066 billion.

### More information and links

**Website:** <http://www.nasa.gov/>

**Contacts:**

varies depending on Office. For the appropriate contact, please visit the section labeled "NASA Research Areas and Addresses for Submission" at the following link:

[http://prod.nais.nasa.gov/pub/pub\\_library/unSol-Prop.html](http://prod.nais.nasa.gov/pub/pub_library/unSol-Prop.html)

**FOREIGN GRANTS INFORMATION:**

[http://prod.nais.nasa.gov/pub/pub\\_library/unSol-Prop.html](http://prod.nais.nasa.gov/pub/pub_library/unSol-Prop.html)





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