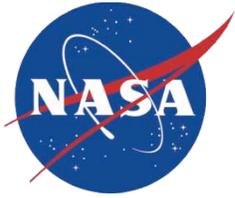


AMES RESEARCH CENTER

How to Propose Research to ARC

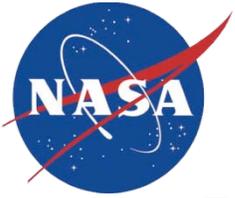
October 24, 2009



AUTHORITY

The National Aeronautics and Space Act of
1958

NASA Grant and Cooperative Agreement
Handbook



How to Submit a Proposal for Research

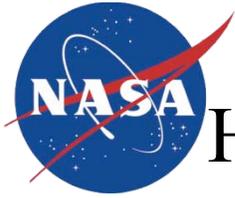
Respond to a Solicitation – (competitive)

Types of Solicitations:

NASA Research Announcement (NRA)

Cooperative Agreement Announcement (CAN)

Announcement of Opportunity (AO)



How to Propose to Ames Research Center (cont'd.)

Solicitations are posted on the following websites:

- NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES)

<http://nspires.nasaprs.com/external/>

- NASA Automated Information System – NAIS

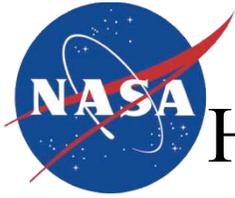
<http://prod.nais.nasa.gov/cgi-bin/nais/index.cgi>

- Federal Business Opportunities (FedBizOpps)

<http://www.fbo.gov/index>

- Grants.gov

<http://grants.gov/>



How to Propose to Ames Research Center (cont'd.)

Guidance on Responding to a Solicitation

- NASA Grant and Cooperative Agreement Handbook
http://prod.nais.nasa.gov/pub/pub_library/grcover.htm
- NRA Proposers Guidebook
<http://www.hq.nasa.gov/office/procurement/nraguidebook/>

See also the NASA FAR Supplement

Part 1835 Research and Development Contracting

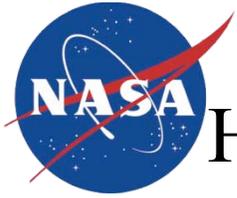
<http://www.hq.nasa.gov/office/procurement/regs/1835.htm>

Part 1872 Acquisition of Investigations

<http://www.hq.nasa.gov/office/procurement/regs/1872.htm>

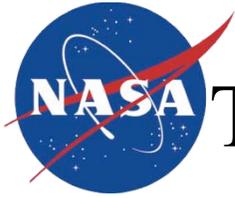
NASA HQ Sponsored Research Business Activity (SRBA)

http://prod.nais.nasa.gov/pub/pub_library/srba/index.html



How to Propose to Ames Research Center (cont'd.)

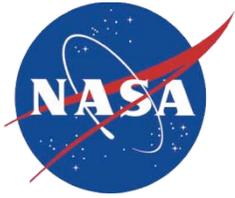
- **Unsolicited Proposals – (not competitive)**
 - Must be innovative and unique;
 - Must be independently originated and developed by the offeror;
 - Must be prepared without Government supervision, endorsement, direction, or direct Government involvement;
 - Must include sufficient technical and cost detail to permit a determination that Government support could be worthwhile and the proposed work could benefit the agency's research and development or other mission responsibilities; and
 - Must not be an advance proposal for a known agency requirement that can be acquired by competitive methods.
- **Guidance for the Preparation and Submission of Unsolicited Proposals**
http://prod.nais.nasa.gov/pub/pub_library/unSol-Prop.html



Types of Award Instruments (cont.d)

Grants

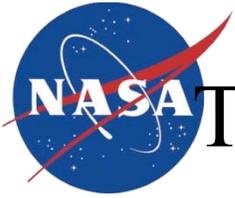
- A grant shall be used as the legal instrument to reflect a relationship between NASA and a recipient whenever the principal purpose is the transfer of anything of value to the recipient to accomplish a public purpose of support or stimulation authorized by Federal statute.
- **Research grant.** A research grant shall be used to accomplish a NASA objective through stimulating or supporting the acquisition of knowledge or understanding of the subject or phenomena under study, or attempting to determine and exploit the potential of scientific discoveries or improvements in technology, materials, processes, methods, devices, or techniques and advance the state of the art. The recipient will bear prime responsibility for the conduct of research, and exercises judgment and original thought toward attaining the scientific goals within broad parameters of the research areas proposed and the resources provided.



Types of Award Instruments

Grants

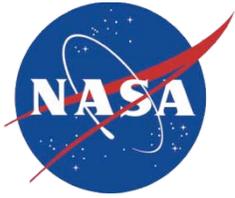
- **Education grant.** An education grant is an agreement that provides funds to an educational institution or other nonprofit organizations within one or more of the following areas:
 - (i) Capturing student interest and/or improving student performance in science, mathematics, technology, or related fields;
 - (ii) Enhancing the skill, knowledge, or ability of teachers or faculty members in science, mathematics, or technology;
 - (iii) Supporting national educational reform movements;
 - (iv) Conducting pilot programs or research to increase participation and/or to enhance performance in science, mathematics, or technology education at all levels; and
 - (v) Developing instructional materials (e.g., teacher guides, printed publications, computer software, and videotapes) or networked information services for education
- **Training grant.** A training grant is an agreement that provides funds primarily for scholarships, fellowships, or stipends to students, teachers, and/or faculty.
- Students and faculty receiving direct support under most education and training grants are required be US citizens.



Types of Award Instruments (cont'd.)

Cooperative Agreements

- A cooperative agreement shall be used as the legal instrument reflecting a relationship between NASA and a recipient whenever the principal purpose is the transfer of anything of value to the recipient to accomplish a public purpose of support or stimulation authorized by Federal statute, **and substantial involvement is anticipated between NASA and the recipient** during performance of the contemplated activity (31 U.S.C. 6305). Characteristics inherent in a cooperative agreement include:
 - (1) Substantial NASA involvement in and contribution to the technical aspects of the effort are necessary for its accomplishment;
 - (2) The project, conducted as proposed, would not be possible without extensive NASA-recipient technical collaboration;
 - (3) The nature of the collaboration shall be clearly defined and specified in the agreement.



Types of Award Instruments (con't.) Contract

Contract –

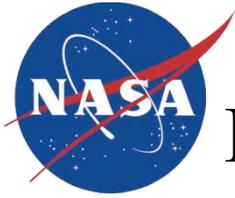
- A procurement contract is a mutually binding legal relationship obligating the seller to furnish supplies or services (including construction), and the buyer pays for them
- The principal purpose of a procurement contract is to acquire, for NASA's direct use or benefit, a well-defined, specific effort clearly required for the accomplishment of a scheduled NASA mission or project.



OMB Circulars

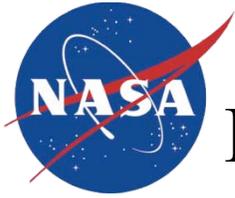
- OMB establishes government wide grants management policies and guidelines through circulars and common rules.
 - A-21 – Cost Principles for Educational Institutions
 - A-122 – Cost Principles for Non-Profit Organizations
 - A-110 – Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education

OMB url: <http://www.whitehouse.gov/WH/EOP/OMB/Grants/>



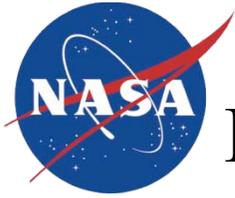
List of Key Areas of Research Interest of Ames Research Center

- Advanced Instrumentation
- Advanced Life Support
- Aerothermal Materials and Structures
- Aerothermodynamics
- Aircraft Conceptual Design
- Applied Computational Fluid Dynamics
- Astrobiology
- Atmospheric Physics
- Bioregenerative Life Support
- Computational Fluid Dynamics
- Computational Materials Science
- Control Algorithm for Wind Tunnel Support Systems
- Earth Atmospheric Chemistry and Dynamics
- Ecosystem Science and Technology
- Experimental Aerodynamics
- Extravehicular Systems Research and Technology



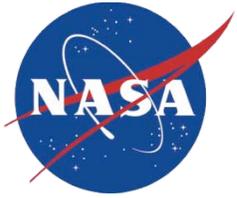
List of Key Areas of Research Interest of Ames Research Center - continued

- Flight Research
- High Speed Computer Architectures
- Human Factors
- Hypersonics
- Infrared Astronomy and Astrophysics
- Infrared Astronomy Projects and Technology Development
- Life Sciences
- Lunar Science
- Nanotechnology
- Neuroscience
- Physical Chemical Closed Loop Life Support
- Planetary Biology
- Planetary Science Rotary Wing Aeromechanics
- Rotorcraft Technology
- Scientific Visualization and Interactive Computer Graphics
- Search for Extrasolar Planets



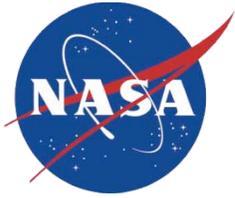
List of Key Areas of Research Interest of Ames Research Center - continued

- Solar System Exploration
- Small Satellites
- Spacecraft Data Systems
- Telecommunications
- Theoretical Astrophysics
- Turbulence Physics
- Unsteady Viscous Flows
- Wind Tunnel Automation
- Wind Tunnel Composite Applications



Additional Information

NASA Headquarters has established the NASA Shared Services Center (NSSC) to award and administer the Agency's grants and cooperative agreements.



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