

Special Notice 11-SN-0007
Special Program Announcement for 2011 Office of Naval Research
Basic Research Opportunity:
“Towards Active Control of Noise from Hot Supersonic Jets”

I. INTRODUCTION:

This announcement describes a basic research thrust, entitled “Towards Active Control of Noise from Hot Supersonic Jets” to be launched under the Office of Naval Research (ONR) Broad Agency Announcement (BAA) ONRBAA11-001, Long Range Broad Agency Announcement for Navy and Marine Corps Science and Technology, which can be found at <http://www.onr.navy.mil/Contract-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx>. The research opportunity described below in this Special Program Announcement specifically falls under numbered paragraph 1 of the “Naval Air Warfare & Weapons (Code 35)” sub-section of BAA 11-001, Section I, item 6, Research Opportunity Description. The submission of proposals, their evaluation and the placement of basic research grants or contracts will be carried out as described in Broad Agency Announcement 11-001.

The research opportunity described in this announcement can be found at:

<http://www.onr.navy.mil/en/Science-Technology/Departments/Code-35/All-Programs/aerospace-research-351/Jet-Noise-Reduction.aspx>

The purpose of this announcement is to focus attention of the scientific community on (1) the area to be studied, and (2) the planned timetable for the submission of proposals.

II. TOPIC DESCRIPTION: TOWARDS ACTIVE CONTROL OF NOISE FROM HOT SUPERSONIC JETS

The Office of Naval Research seeks full proposals aimed at understanding and controlling the development of large-scale flow structures in hot, supersonic, shock-containing jet plumes and their contribution to near-field (within 20 nozzle diameters of the jet axis) and far-field (greater than 100 jet diameters) noise. Research areas of interests include: analytical and computational approaches, correlation between flow interactions and noise radiation, advanced diagnostics and experiments, and advanced noise control design methodologies and devices.

III. INDUSTRY DAY

An industry day is not planned in conjunction with this Special Program Announcement.

IV. FULL PROPOSAL SUBMISSION AND AWARD INFORMATION

Full proposals (including one technical volume and one cost volume) should be submitted under **BAA 11-001** by **25 February 2011**. Full proposals received after that date will be considered **only** insofar as agency time and continued availability of funding permit.

ONR anticipates that both grants and contracts will be issued for this effort. Proposals for contracts, cooperative agreements and other transactions should be submitted in accordance with the instructions at Section IV, Application & Submission Information, item 2.b, Full Proposals (page 19) of BAA 11-001. Proposals for grants should be submitted in accordance with the instructions at Section IV, Application & Submission Information, item 2.b, Full Proposals (page 19), and item 5, Submission of Grant Proposals through Grants.gov (page 24). All grant proposals must be submitted through www.grants.gov. In the “Federal Identifier” field, all Offerors should insert “351 Doychak.” All attachments to the application should also include this identifier to ensure the proposal and its attachments are received by the appropriate Program Office.

ONR may fund five (5) or more individual awards for a two-year duration plus a one-year option, if needed. A typical award supports a level of funding consistent with a graduate student thesis effort. All awards are subject to the availability of funds.

Funding decisions should be made by **1 April 2011**. Projects will have an estimated start date of **1 August 2011**.

V. POINT OF CONTACT

In addition to the points of contact listed in BAA 11-001, the specific points of contact for this announcement are listed below:

Technical Point of Contact:

Dr. Joseph Doychak, Program Officer, Code 351, joseph.doychak@navy.mil

Business Point of Contact:

Lynnette Desorcie, Sr. Contracting Officer, lynnette.desorcie@navy.mil

ATTACHED ARE QUESTIONS RECEIVED TO DATE AND THE RESPONSES

Q.1 The Special Notice, as amended, indicates that, "A typical award supports a level of funding consistent with a graduate student thesis effort." How much is that?

A.1 The level of funding consistent with a graduate student thesis is considered to be in the approximate range of \$75,000 to \$150,000.

Q.2 Is there a funding ceiling per proposal?

A.2 No.

Q.3 Is it possible to propose an effort consistent with only one research area?

A.3 Yes.

Q.4 Is it possible to propose an effort consistent with all research areas?

A.4 Yes

Q.5 Is it possible to propose as a research team? Should the team members propose together under one proposal or should separate proposals be submitted? If separate proposals are submitted, will there be any drawbacks to expressing interdependencies between proposals submitted by other team members?

A.5 Yes, it is possible to propose as a research team. However, the Office of Naval Research reserves the right to award efforts associated with the entire proposed scope of research or any portion thereof. It is left to the proposer's discretion as to whether one or more proposals should be submitted. If separate proposals are submitted, interdependencies will be evaluated on a case by case basis.

Q.6 Most graduate student thesis efforts take longer than two years. Why will the awards be two years in duration with a one year option? What if it takes longer than three years to complete the effort?

A.6 The proposed scope should be able to be completed within three years. Being highly competitive, sufficient progress will need to be

demonstrated during the initial two years prior to receiving funding for the additional one year option. All awards, including options, are subject to the availability of funds.

Q.7 Is this research opportunity available only to Universities?

A.7 No. This research opportunity is available to eligible organizations as described in ONRBAA11-001.

Q.8 The description of award level of funding appears to be aligned with only Universities. If I am not from a University, do I need to be restricted to the levels of funding as described?

A.8 Reference to a graduate student thesis effort funding level for a typical award is for illustrative purposes only. It is not meant to indicate that all awards will need to fall within any constraint that this may impose.

Q.9 Will a proposal suggesting large scale testing and measurements be considered?

A.9 All responsive proposals will be considered. However, this research opportunity is specific to basic research which typically does not involve large scale testing and measurements.

Q.10 How many awards will be made?

A.10 The Office of Naval Research may fund five or more awards under this research opportunity depending on availability of funds.

Q.11 Will there be follow-on or additional research opportunities for similar work?

A.11 The current research opportunity is being managed within the Office of Naval Research's Jet Noise Reduction (JNR) Project, Noise Induced Hearing Loss Program. The JNR Project scope is broader than this current research opportunity. However, there are no additional competitive opportunities available at this time. The JNR Project web site will be updated to reflect changes and any additional research opportunities.

Q.12 Will the Office of Naval Research be able to provide CPU hours for computational works in awarded projects?

A.12 No. The Proposers would need to identify those resources independently.