

**FINANCIAL ASSISTANCE  
FUNDING OPPORTUNITY ANNOUNCEMENT**



**U.S. Department of Energy  
Office of Science  
Office of Fusion Science Research**

**PLASMA SCIENCE CENTERS**

**Funding Opportunity Number: DE-PS02-08ER08-25**

**Announcement Type: Initial**

**CFDA Number: 81.049**

**ATTENTION:**

**A change has been made to the application due date  
(From February 2, 2009 to January 30, 2009)**

**ISSUE DATE: June 25, 2008**

**Letter Of Intent Due Date: August 11, 2008**

**Preapplication Due Date: September 1, 2008, 4:30 PM Eastern Time  
(Preapplications are Required)**

**Application Due Date: January 30, 2009, 8:00 PM Eastern Time**

## **NOTE: REQUIREMENTS FOR GRANTS.GOV**

**Where to Submit:** Applications must be submitted through Grants.gov to be considered for award. You cannot submit an application through Grants.gov unless you are registered. Please read the registration requirements carefully and start the process immediately. Remember you have to update your CCR registration annually. If you have any questions about your registration, you should contact the Grants.gov Helpdesk at 1-800-518-4726 to verify that you are still registered in Grants.gov.

**Registration Requirements:** There are several one-time actions you must complete in order to submit an application through Grants.gov (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), register with the credential provider, and register with Grants.gov). See <http://www.grants.gov/GetStarted>. Use the Grants.gov Organization Registration Checklist at <http://www.grants.gov/assets/OrganizationRegCheck.pdf> to guide you through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in the CCR registration process. Applicants, who are not registered with CCR and Grants.gov, should allow at least 21 days to complete these requirements. It is suggested that the process be started as soon as possible.

**IMPORTANT NOTICE TO POTENTIAL APPLICANTS:** When you have completed the process, you should call the Grants.gov Helpdesk at 1-800-518-4726 to verify that you have completed the final step (i.e. Grants.gov registration).

**MICROSOFT VISTA AND OFFICE 2007 COMPATIBILITY:** Grants.gov is currently incompatible with both the new Microsoft (MS) Vista Operating System and the new Microsoft (MS) Office 2007 versions of Word, Excel and Power Point. In order to create and submit your application to Grants.gov, you must find a computer with a previous version Microsoft Operating System, such as Windows XP.

If you attach a file created using MS Office 2007, you will not get an error message when you submit the application, HOWEVER your entire application will not be able to be processed or accepted at Grants.gov and will not reach DOE. Grants.gov can accept applications with attachments created in MS Office 2007 if the attachments are saved in the prior format. See [www.grants.gov/www.grants.gov/assets/Vista\\_and\\_office\\_07\\_Compatibility.pdf](http://www.grants.gov/www.grants.gov/assets/Vista_and_office_07_Compatibility.pdf) for detailed instructions on how to do this. A file created in MS Office 2007 can be identified by the "x" at the end of the file extension, for example "sample.docx" for a Word file. Contact Grants.gov at 1-800-518-4726 with any questions.

**Questions:** Questions relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or [support@grants.gov](mailto:support@grants.gov). Part VII of this announcement explains how to submit other questions to the Department of Energy (DOE).

**Application Receipt Notices:** After an application is submitted, the Authorized Organization Representative (AOR) will receive a series of five e-mails. It is extremely important that the AOR watch for and save each of the e-mails. It may take up to two (2) business days from application submission to receipt of e-mail Number 2.

When the AOR receives e-mail Number 5, it is their responsibility to follow the instructions in the e-mail to logon to IIPS and verify that their application was received by DOE. The titles of the five e-mails are:

Number 1 – Grants.gov Submission Receipt Number

Number 2 – Grants.gov Submission Validation Receipt for Application Number

Number 3 – Grants.gov Grantor Agency Retrieval Receipt for Application Number

Number 4 – Grants.gov Agency Tracking Number Assignment for Application Number

Number 5 – DOE e-Center Grant Application Received

The last e-mail will contain instructions for the AOR to register with the DOE e-Center. If the AOR is already registered with the DOE e-Center, the title of the last e-mail changes to:

Number 5 – DOE e-Center Grant Application Received and Matched

This e-mail will contain the direct link to the application in IIPS. The AOR will need to enter their DOE e-Center user id and password to access the application.

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## **PART I – FUNDING OPPORTUNITY DESCRIPTION**

**GENERAL INQUIRIES ABOUT THIS FOA SHOULD BE DIRECTED TO:**

### **Technical/Scientific Contact:**

**Dr. Michael Crisp**, Office of Fusion Energy Sciences, SC-24.2

PHONE: (301) 903-4883

FAX: (301) 903-4716

E-MAIL: [Michael.Crisp@science.doe.gov](mailto:Michael.Crisp@science.doe.gov)

### **STATUTORY AUTHORITY**

Public Law 95-91, US Department of Energy Organization Act

Public Law 109-58, Energy Policy Act of 2005

### **APPLICABLE REGULATIONS**

U.S. Department of Energy Financial Assistance Rules, codified at 10 CFR Part 600

U.S. Department of Energy, Office of Science Financial Assistance Program Rule, codified at 10 CFR Part 605

### **SUMMARY:**

The Office of Fusion Energy Sciences (OFES) of the Office of Science (SC), U.S. Department of Energy (DOE), announces its interest in receiving cooperative agreement applications for Plasma Science Centers with a research focus in plasma science. The duration of the Center cooperative agreement will be five years, with the possibility of a one time renewal for five more years. All institutions or groups planning to submit applications for funding a new center in Fiscal Year 2009 should submit in response to this Notice. Applicants are not being asked, in any way, to fund or establish a Federally Funded Research and Development Center (FFRDC).

### **SUPPLEMENTARY INFORMATION**

#### **Background:**

The development of new investigative techniques and research tools presents a window of opportunity for fundamental advances in the understanding of plasma science. Many of the issues in plasma science are sufficiently complex that significant progress requires closely interacting, critical-mass groups of scientists with a broad mix of skills and backgrounds. There is also a need to strengthen the connection between the fusion research community and the broader scientific community. The objective of this initiative is to fund one or two university-based Plasma Science Centers (PSC), which will focus on fundamental issues in plasma science. The PSC will be supported to perform plasma science research in areas of

such wide scope and complexity that it would not be feasible for individual investigators or small groups to make progress. For example, understanding the dynamics of plasma turbulence and transport requires the development of appropriate physical models, computational algorithms for treating disparate space and times scales, as well as complex magnetic geometries, efficient programming on massively parallel computing platforms, and an understanding of nonlinear physics. A well coordinated collaboration of a team of scientists is more likely to have the breadth of knowledge and skills required to tackle such large and complex problems successfully. Achievement of recognition of the value of the field of plasma science by the broader scientific community is a major objective of the PSC. Thus it is important that the research team that will be assembled for the PSC should promote connectivity with the broader scientific community.

**Areas of Focus:**

A PSC will be a university-based center of excellence that will emphasize scientific issues that are of fundamental importance to plasma science as discussed in the National Research Council's (NRC) Plasma 2010 Committee report ( "Plasma Science: Advancing Knowledge in the National Interest", [http://books.nap.edu/catalog.php?record\\_id=11960](http://books.nap.edu/catalog.php?record_id=11960)). Areas of interest include, but are not limited to, Low Temperature Plasma Science, Plasma Materials Interactions, Laboratory Astrophysics and Basic Plasma Science. The area of High Energy Density Laboratory Plasmas (HEDLP) will not be considered in this solicitation but will be considered in a separate solicitation.

**Educational Component:**

Since future manpower requirements of the fusion energy sciences program are an important concern, proposals should discuss effective ways in which education and training are integrated within their research programs. Centers should be expected to sponsor multidisciplinary workshops and summer schools that will bring together students and researchers from various fields and institutions to focus on basic plasma science. The workshops should also serve to communicate the advances and challenges of fusion science to the broader scientific community.

**Eligibility Information:**

Applications are sought from academic institutions and groups, within the United States, which have research and educational programs in plasma science. The Center is expected, and encouraged, to participate in collaborations with other research institutions. The PSC is envisioned to combine the expertise and approaches of national laboratories and universities. However, since the thrust of this initiative is for university-based institutions, any participation of a FFRDC, including a Department of Energy National Laboratory, should be limited to no more than 20 percent of the Center funding.

**Cost Sharing or Matching:**

The host institution is required to provide at least 15 percent matching funds for the Center. (Example: If DOE provides \$500,000 the host institution would be responsible for providing at least an additional \$75,000.)

## **Request for Cooperative Agreement Applications:**

**LETTER OF INTENT DUE DATE:** August 11, 2008

Applicants are requested to submit a Letter of Intent by August 11, 2008. Letters of Intent should be sent by E-mail to the following E-mail address: [John.Sauter@science.doe.gov](mailto:John.Sauter@science.doe.gov). Please include "Letter of Intent for Announcement DE-PS02-08ER08-25" in the subject line.

See "Application Process" below for additional details on submission requirements for Letters of Intent, Preapplications and Full Applications.

**PREAPPLICATION DUE DATE:** September 1, 2008

To permit timely consideration for awards in Fiscal Year 2009, applicants are **REQUIRED** to submit a Preapplication by September 1, 2008. Following a peer review of the Preapplication, applicants may be invited to submit a Full Application in response to this Announcement.

The Preapplication should be sent by e-mail to: [John.Sauter@science.doe.gov](mailto:John.Sauter@science.doe.gov). Please include "Preapplication for Announcement DE-PS02-08ER08-25" in the subject line.

**FORMAL APPLICATION DUE DATE: February 2, 2009, 8 pm Eastern Time**

Applications must be submitted using [Grants.gov](http://Grants.gov). The Funding Opportunity Announcement can be found using the CFDA Number, 81.049 or the Funding Opportunity Announcement number, **DE-PS02-08ER08-25**. Applicants must follow the instructions and use the forms provided on Grants.gov.

### **PROGRAM MANAGER:**

**Dr. Michael Crisp**, Office of Fusion Energy Sciences, SC-24.2

PHONE: (301) 903-4883

FAX: (301) 903-4716

E-MAIL: [Michael.Crisp@science.doe.gov](mailto:Michael.Crisp@science.doe.gov)

### **APPLICATION PROCESS**

Applicants are requested to submit a Letter of Intent as stated above. Applicants will be **required** to submit a detailed Preapplication that will be peer reviewed. Following the review of the Preapplication, applicants may be invited to submit a Formal Application. The Formal Application will receive an extensive review which may include oral presentations by the Principal Investigator and his collaborators.

## **Letter of Intent**

Letters of Intent must include the title of the application, the name of the Principal Investigator(s), the requested funding and a one-page abstract. These Letters of Intent will be used to organize and expedite review processes. Failure to submit a Letter of Intent will not negatively prejudice a responsive formal application submitted in a timely fashion.

## **Preapplication**

The Preapplication should consist of a description of the research proposed to be undertaken by the Plasma Science Center including a clear explanation of its importance to the advancement of plasma science. The Preapplication should be limited to a maximum of 30 pages (including text and figures, but not including biographical information) of technical information. It should briefly describe the institutional setting of the PSC, its proposed scope and organization, activities in research and education and their integration, development of human resources and shared experimental facilities, links with related major research centers, on campus or off campus, and a management plan. The application should emphasize the synergy of collaborations that will be facilitated by the Center. A clear case should be made that the Center's research program will contribute more to the advancement of plasma science than would be expected from the independent efforts of its individual investigators. Also included should be a description of educational activities that will be an integral part of the Center's research program and other information necessary for a concise overview of the PSC activities. The PSC application should describe proposed efforts to communicate concepts, methods, tools, and results to the wider world of science in order to raise awareness of the fusion science community's scientific accomplishments.

## **Formal Application**

**The Department of Energy will accept Formal Applications for a Plasma Science Center by invitation only, based upon the results of an evaluation of the Preapplication.** The Formal Application should consist of a more detailed description of the material contained in the Preapplication. The Formal Application may be modified in response to the reviewers' comments concerning the Preapplication. The review process for the Formal Application may also include oral presentations, made to a review panel, by the proposed Center's key people.

## **Program Funding**

It is anticipated that about \$2,300,000 of Fiscal Year 2009 funding will be available to fund one or two Plasma Science Centers from applications received in response to this Announcement. Because future year funding is not anticipated to increase, applications should propose constant effort in future years (allowing for inflation). Future year funding will depend upon suitable progress and the availability of funds. The cost-effectiveness of the application will be considered when comparing applications with differing funding requirements.

## **Merit Review**

Applications will be subjected to formal merit review and will be evaluated against the following criteria, which are listed in descending order of importance as set forth in 10 CFR Part 605.

1. Scientific and/or technical merit of the project,
2. Appropriateness of the proposed method or approach,
3. Competency of the applicant's personnel and adequacy of the proposed resources,
4. Reasonableness and appropriateness of the proposed budget.

The Office of Fusion Energy Sciences will also consider, as part of the evaluation, other available advice or information as well as program policy factors, such as ensuring an appropriate balance among and within the program areas, ensuring support for major computational efforts, ensuring support for experiments, and quality of previous performance.

## **Additional Review Criteria**

In order to encourage innovation and originality in the application, preconceived specifications are being kept to a minimum in this announcement. A proposal for a center should have a plan to identify, pose, and answer scientific questions of widely recognized importance. In all cases, however, a Center's application should demonstrate that the whole of the Center's effort will be substantially greater than the sum of its parts. Attention will be paid to the management plan, which should include a description of how the PSC will operate. The plan should also describe proposed activities that will be undertaken to enhance recognition and connectivity between the Center and the broader scientific community.

In addition to the information required by 10 CFR Part 605 each application should contain the following items: (1) a succinct statement of the goal of the research, (2) a detailed research plan, (3) the specific results expected at the end of the project period, (4) an analysis of the adequacy of the budget, (5) a discussion of the impact of the proposed research on other fields of science, and (6) for projects requiring significant computational resources (e.g., at the National Energy Research Scientific Computing Center), an estimate and justification of the resources that will be required.

With respect to the enhanced productivity that one would expect from the synergy of a Center, additional review criteria are:

- 1) Clear evidence of collaborative work.
- 2) The extent to which the group addresses difficult problems requiring a team effort.
- 3) Clear evidence of scientific leadership.
- 4) The extent to which the management will evaluate the relevance and scientific impact of the group's work.

Selection of applications for award will be based upon the findings of the technical evaluations, the importance and relevance of the proposed research to the Office of Fusion Energy Sciences' mission, and funding availability.

### **Collaboration**

Collaborative research projects with other institutions, such as universities, industry, non-profit organizations, and Federally Funded Research and Development Centers (FFRDCs), including the DOE National Laboratories, are encouraged under this Announcement. Applications submitted from different institutions, which are directed at a single research activity, should clearly indicate they are part of a proposed collaboration and contain a brief description of the overall research project. However, each application must have a distinct scope of work and a qualified principal investigator who is responsible for the research effort being performed at his or her institution. Further information on preparation of collaborative applications may be accessed via the Internet at: <http://www.science.doe.gov/grants/Colab.html>.

## **PART II – AWARD INFORMATION**

### **A. TYPE OF AWARD INSTRUMENT.**

DOE anticipates awarding cooperative agreements under this program announcement.

### **B. ESTIMATED FUNDING.**

It is anticipated that about \$2,300,000 of Fiscal Year 2009 funding will be available to fund one or two Plasma Science Centers from applications received in response to this Announcement. Because future year funding is not anticipated to increase, applications should propose constant effort in future years (allowing for inflation). Future year funding will depend upon suitable progress and the availability of funds. The cost-effectiveness of the application will be considered when comparing applications with differing funding requirements.

### **C. MAXIMUM AND MINIMUM AWARD SIZE.**

See B. Estimated Funding section above.

### **D. EXPECTED NUMBER OF AWARDS.**

See B. Estimated Funding section above.

### **E. ANTICIPATED AWARD SIZE.**

See B. Estimated Funding section above.

### **F. PERIOD OF PERFORMANCE.**

See B. Estimated Funding section above.

### **G. TYPE OF APPLICATION.**

DOE will accept new and renewal applications under the Announcement. The applications must be relevant to the terms of reference for this Announcement and responsive to the particular needs defined.

### **RENEWAL APPLICATION INSTRUCTIONS**

Renewal applications must include the same forms and information as a new application, in addition to the following:

1. Include under the project description/narrative section, information on any research changes (size or scope) that affect the original research endeavor.

2. Include an estimate of anticipated unexpended funds that will remain at the end of the current project period.

3. Include a progress report as an appendix to the narrative section (**this will not count against the 50 page limit**) that describes the results of work accomplished through the date of the renewal application and how such results relate to the activities proposed to be undertaken in the renewal period.

## **PART III - ELIGIBILITY INFORMATION**

### **A. ELIGIBLE APPLICANTS.**

Applications are sought from academic institutions and groups, within the United States, which have research and educational programs in plasma science. The Center is expected, and encouraged, to participate in collaborations with other research institutions. The PSC is envisioned to combine the expertise and approaches of national laboratories and universities. However, since the thrust of this initiative is for university-based institutions, any participation of a FFRDC, including a Department of Energy National Laboratory, should be limited to no more than 20 percent of the Center funding.

### **B. COST SHARING OR MATCHING**

The host institution is required to provide at least 15 percent matching funds for the Center. (Example: If DOE provides \$500,000 the host institution would be responsible for providing an additional \$75,000.)

### **C. OTHER ELIGIBILITY REQUIREMENTS.**

Section 2306 of the Energy Policy Act of 1992 (EPACT) [42 U.S.C. 13525] imposes certain eligibility requirements on awards made under this program. In order to make an award to an applicant that is a business entity, other than a non-profit organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954, DOE must determine that the applicant's participation will be in the economic interest of the United States and that the applicant is either a U.S. owned company or is incorporated or organized under the laws of any State and that its parent company is incorporated or organized under the laws of a country that affords: (1) to U.S. owned companies opportunities comparable to those afforded to any other company to participate in government-supported joint ventures in energy research and development and in local investment opportunities; and (2) adequate and effective protection for intellectual property rights of the U. S. owned companies. Eligible applicants must be able to meet these two tests. (See Section IV.C for submission of EPACT Representation.)

State, local, and tribal governments, as well as 501(c)(3) organizations, do not need to complete an EPACT representation form.

## PART IV – APPLICATION AND SUBMISSION INFORMATION

### A. ADDRESS TO REQUEST APPLICATION PACKAGE.

Application forms and instructions are available at Grants.gov. To access these materials, go to <http://www.grants.gov>, select "Apply for Grants", and then select "Download Application Package". Enter the CFDA and/or the funding opportunity number located on the cover of this announcement and then follow the prompts to download the application package.

### B. LETTER OF INTENT AND PREAPPLICATION.

#### 1. Letter of Intent.

A Letter of Intent is requested.

#### 2. Preapplication.

A Preapplication is required.

The Preapplication should consist of a description of the research proposed to be undertaken by the Plasma Science Center including a clear explanation of its importance to the advancement of plasma science. The Preapplication should be limited to a maximum of 30 pages (including text and figures but not including biographical information) of technical information. It should briefly describe the institutional setting of the PSC, its proposed scope and organization, activities in research and education and their integration, development of human resources and shared experimental facilities, links with related major research centers, on campus or off campus, and a management plan. The application should emphasize the synergy of collaborations that will be facilitated by the Center. A clear case should be made that the Center's research program will contribute more to the advancement of plasma science than would be expected from the independent efforts of its individual investigators. Also included should be a description of educational activities that will be an integral part of the Center's research program and other information necessary for a concise overview of the PSC activities. The PSC application should describe proposed efforts to communicate concepts, methods, tools, and results to the wider world of science in order to raise awareness of the fusion science community's scientific accomplishments.

### C. CONTENT AND FORM OF APPLICATION – SF 424 (R&R).

You must complete the mandatory forms and any applicable optional forms (e.g., SF-LLL-Disclosure of Lobbying Activities) in accordance with the instructions on the forms and the additional instructions below. **Files that are attached to the forms must be in Adobe Portable Document Format (PDF) unless otherwise specified in this announcement.**

**1. SF 424 (R&R).**

Complete this form first to populate data in other forms. Complete all the required fields in accordance with the pop-up instructions on the form. To activate the instructions, turn on the “Help Mode” (Icon with the pointer and question mark at the top of the form). The list of certifications and assurances referenced in Field 18 can be found on the DOE Financial Assistance Forms Page at [http://management.energy.gov/business\\_doe/business\\_forms.htm](http://management.energy.gov/business_doe/business_forms.htm), under Certifications and Assurances.

**2. RESEARCH AND RELATED Other Project Information.**

Complete questions 1 through 5 and attach files. The files must comply with the following instructions:

**Project Summary/Abstract (Field 6 on the Form).**

The project summary/abstract must contain a summary of the proposed activity suitable for dissemination to the public. It should be a self-contained document that identifies the name of the applicant, the project director/principal investigator(s) (PD/PI), the project title, the objectives of the project, a description of the project, including methods to be employed, the potential impact of the project (i.e., benefits, outcomes), and major participants (for collaborative projects). This document must not include any proprietary or sensitive business information as the Department may make it available to the public. The project summary must not exceed 1 page when printed using standard 8.5” by 11” paper with 1” margins (top, bottom, left and right) with font not smaller than 11 point. To attach a Project Summary/Abstract, click “Add Attachment.”

**Project Narrative (Field 7 on the Form).**

The project narrative **must not exceed 50 pages** of technical information, including charts, graphs, maps, photographs, and other pictorial presentations, when printed using standard 8.5” by 11” paper with 1 inch margins (top, bottom, left, and right).

EVALUATORS WILL ONLY REVIEW THE NUMBER OF PAGES SPECIFIED IN THE PRECEDING SENTENCE. The font must not be smaller than 11 point. Do not include any Internet addresses (URLs) that provide information necessary to review the application, because the information contained in these sites will not be reviewed. See Part VIII.D for instructions on how to mark proprietary application information. To attach a Project Narrative, click “Add Attachment.”

**The first page of your narrative must include the following information (this page will not count in the project narrative 50 page limitation):**

**Applicant/Institution:**

**Street Address/City/State/Zip:**

**Principal Investigator:**

**Address:**

**Telephone Number:**

**Email:**

**DOE/Office of Science Program Office:** Office of Fusion Energy Sciences

**DOE/Office of Science Program Office Technical Contact: Dr. Michael Crisp  
DOE Cooperative agreement Number (if Renewal Application):**

Is this a Collaboration? If yes, please list ALL Collaborating Institutions/Pis\* and indicate which ones will also be submitting applications.

*\* Note that collaborating applications must be submitted separately.*

The narrative comprises the research plan for the project. Letters of intent from all non-funded collaborators and short curriculum vitae of all senior personnel must be included in the application. Applications not meeting these requirements will be deemed ineligible during the initial screening process. The major part of the narrative should be devoted to a description and justification of the proposed project, including details of the methods to be used. It should also include a timeline for the major activities of the proposed project, and should indicate which project personnel will be responsible for which activities.

**The project narrative must include:**

**Project Objectives:**

This section should provide a clear, concise statement of the specific objectives/aims of the proposed project.

The Project Narrative comprises the research plan for the project, it should contain enough background material in the Introduction, including review of the relevant literature, to demonstrate sufficient knowledge of the state of the science. The major part of the narrative should be devoted to a description and justification of the proposed project, including details of the method to be used. It should also include a timeline for the major activities of the proposed project, and should indicate which project personnel will be responsible for which activities.

**Project Timetable:**

This section should outline as a function of time, year by year, all the important activities or phases of the project, including any activities planned beyond the project period. Successful applicants must use this project timetable to report progress.

**Project Performance Site:**

Indicate the primary site where the work will be performed. If a portion of the work will be performed at any other sites, identify those sites, also.

**Appendix 1: Biographical Sketch.**

Provide a biographical sketch for the project director/principal investigator (PD/PI) and each senior/key person listed in Section A on the R&R Budget form. **Provide the biographical sketch information as an appendix to your project narrative. Do not attach a separate file.** The biographical sketch appendix will not count in the project

narrative 50 page limitation. The biographical information for each person must not exceed 2 pages when printed on 8.5" by 11" paper with 1 inch margins (top, bottom, left, and right) with font not smaller than 11 point and must include:

*Education and Training.* Undergraduate, graduate and postdoctoral training, provide institution, major/area, degree and year.

*Research and Professional Experience:* Beginning with the current position list, in chronological order, professional/academic positions with a brief description.

*Publications.* Provide a list of up to 10 publications most closely related to the proposed project. For each publication, identify the names of all authors (in the same sequence in which they appear in the publication), the article title, book or journal title, volume number, page numbers, year of publication, and website address if available electronically.

Patents, copyrights and software systems developed may be provided in addition to or substituted for publications.

*Synergistic Activities.* List no more than 5 professional and scholarly activities related to the effort proposed.

*Identification of Potential Conflicts of Interest or Bias in Selection of Reviewers.* Provide the following information in this section.

*Collaborators and Co-editors:* List in alphabetical order all persons, including their current organizational affiliation, who are, or who have been, collaborators or co-authors with you on a research project, book or book article, report, abstract, or paper during the 48 months preceding the submission of this application. Also, list any individuals who are currently, or have been, co-editors with you on a special issue of a journal, compendium, or conference proceedings during the 24 months preceding the submission of this application. If there are no collaborators or co-editors to report, state "None."

*Graduate and Postdoctoral Advisors and Advisees:* List the names and current organizational affiliations of your graduate advisor(s) and principal postdoctoral sponsor(s) during the last five years. Also, list the names and current organizational affiliations of your graduate students and postdoctoral associates during the past five years.

## **Appendix 2: Current and Pending Support.**

Provide a list of all current and pending support (both Federal and non-Federal) for the Project Director/Principal Investigator(s) (PD/PI) and senior/key persons, including subawardees, for ongoing projects and pending applications. For each organization providing support, show the total award amount for the entire award period (including indirect costs) and the number of person-months per year to be devoted to the project by

the senior/key person. **Provide the Current and Pending Support as an appendix to your project narrative. Do not attach a separate file.** The Current and Pending Support Appendix will not count in the project narrative 50 page limitation. Concurrent submission of an application to other organizations for simultaneous consideration will not prejudice its review. Save the information in a separate file and attach to the “Attach Current and Pending Support” field in each profile.

### **Appendix 3: Bibliography & References Cited.**

Provide a bibliography of any references cited in the Project Narrative. Each reference must include the names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication. Include only bibliographic citations. Applicants should be especially careful to follow scholarly practices in providing citations for source materials relied upon when preparing any section of the application. In order to reduce the number of files attached to your application, **please provide the Bibliography and References Cited information as an appendix to your project narrative. This appendix will not count in the project narrative 50 page limitation.**

### **Appendix 4: Facilities & Other Resources.**

This information is used to assess the capability of the organizational resources, including subawardee resources, available to perform the effort proposed. Identify the facilities to be used (Laboratory, Animal, Computer, Office, Clinical and Other). If appropriate, indicate their capacities, pertinent capabilities, relative proximity, and extent of availability to the project. Describe only those resources that are directly applicable to the proposed work. Describe other resources available to the project (e.g., machine shop, electronic shop) and the extent to which they would be available to the project. In order to reduce the number of files attached to your application, **please provide the Facility and Other Resource information as an appendix to your project narrative. This appendix will not count in the project narrative 50 page limitation.**

### **Appendix 5: Equipment.**

List major items of equipment already available for this project and, if appropriate identify location and pertinent capabilities. In order to reduce the number of files attached to your application, **please provide the Equipment information as an appendix to your project narrative. This appendix will not count in the project narrative 50 page limitation.**

### **Appendix 6: Other Attachment.**

If you need to elaborate on your responses to questions 1-5 on the “Other Project Information” document, **please provide this information as an appendix to your project narrative. This appendix will not count in the project narrative 50 page limitation.**

**Do not attach any of the requested appendices described above as files for fields 8, 9, 10, and 11, instead follow the above instructions to include the information as appendices to the project narrative file (these appendices will not count in the project narrative 50 page limitation).**

### **3. RESEARCH AND RELATED BUDGET.**

Complete the Research and Related Budget form in accordance with the instructions on the form (Activate Help Mode to see instructions) and the following instructions. You must complete a separate budget for each year of support requested. The form will generate a cumulative budget for the total project period. You must complete all the mandatory information on the form before the NEXT PERIOD button is activated. You may request funds under any of the categories listed as long as the item and amount are necessary to perform the proposed work, meet all the criteria for allowability under the applicable Federal cost principles, and are not prohibited by the funding restrictions in this announcement (See PART IV, G).

#### **Budget Justification (Field K on the form).**

Provide the required supporting information for the following costs (See R&R Budget instructions): equipment; domestic and foreign travel; participant/trainees; material and supplies; publication; consultant services; ADP/computer services; subaward/consortium/contractual; equipment or facility rental/user fees; alterations and renovations; and indirect cost type. Provide any other information you wish to submit to justify your budget request. **Attach a single budget justification file for the entire project period in Field K.** The file automatically carries over to each budget year.

### **4. SF-LLL Disclosure of Lobbying Activities.**

If applicable, complete SF- LLL. Applicability: If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the cooperative agreement, you must complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying."

## Summary of Required Forms/Files

Your application must include the following documents:

Name of Document	Format	Attach to
<b>SF 424 (R&amp;R)</b>	PureEdge	N/A
<b>RESEARCH AND RELATED Other Project Information</b>	PureEdge	N/A
Project Summary/Abstract	PDF	Field 6
Project Narrative, including required appendices	PDF	Field 7
<b>RESEARCH &amp; RELATED BUDGET</b>	PureEdge	N/A
Budget Justification	PDF	Field K

### D. SUBMISSIONS FROM SUCCESSFUL APPLICANTS.

If selected for award, DOE reserves the right to request additional or clarifying information for any reason deemed necessary, including, but not limited to:

- Indirect cost information
- Other budget information
- Name and phone number of the Designated Responsible Employee for complying with national policies prohibiting discrimination (See 10 CFR 1040.5)
- Representation of Limited Rights Data and Restricted Software, if applicable
- Commitment Letter from Third Parties Contributing to Cost Sharing or Matching, if applicable

### E. SUBMISSION DATES AND TIMES.

#### 1. Letter of Intent Due Date.

A Letter of Intent is requested.

#### 2. Preapplication Due Date.

Potential applicants are **required** to submit a preapplication, to **DOE by September 1, 2008, 4:30p.m., Eastern Time.**

The Preapplication should be sent by e-mail to: [John.Sauter@science.doe.gov](mailto:John.Sauter@science.doe.gov). Please include "Preapplication for Announcement DE-PS02-08ER08-25" in the subject line.

All preapplications will be reviewed relative to the scope and research needs of the ARM Program. A response to each preapplication, discussing the potential program relevance of research for a formal application, generally will be communicated within 15 days of receipt. Applicants who have not received a response regarding the status of their preapplication within a reasonable time are responsible for contacting the program to confirm the status.

A preapplication should consist of no more than 30 pages of narrative describing the research objectives and methods of accomplishment. Additional required parts of the preapplication are: Principal Investigator's address, telephone and fax number, e-mail address, Funding Opportunity Number, estimate of level of funding requested, and names of all senior personnel.

SC's preapplication policy can be found on SC's Grants and Contracts Web Site at: <http://www.science.doe.gov/grants/preapp.html>. Please contact Dr. Michael Crisp (301) 903-4883, [Michael.Crisp@science.doe.gov](mailto:Michael.Crisp@science.doe.gov) for any questions related to this Announcement. Applicants should allow sufficient time so that the formal application deadline is met.

### **3. Formal Applications.**

Formal applications submitted in response to this Announcement must be received by February 2, 2009 8:00 p.m. Eastern time, to permit timely consideration of awards in Fiscal Year 2009. **You are encouraged to transmit your application well before the deadline. APPLICATIONS RECEIVED AFTER THE DEADLINE WILL NOT BE REVIEWED OR CONSIDERED FOR AWARD.**

### **F. INTERGOVERNMENTAL REVIEW.**

This program is not subject to Executive Order 12372 Intergovernmental Review of Federal Programs.

### **G. FUNDING RESTRICTIONS.**

Cost Principles. Costs must be allowable in accordance with the applicable Federal cost principles referenced in 10 CFR Part 600.

Pre-award Costs. Recipients may charge to an award resulting from this announcement pre-award costs that were incurred within the ninety (90) calendar day period immediately preceding the effective date of the award, if the costs are allowable in accordance with the applicable Federal cost principles referenced in 10 CFR Part 600. Recipients must obtain the prior approval of the contracting officer for any pre-award costs that are for periods greater than this 90 day calendar period.

Pre-award costs are incurred at the applicant's risk. DOE is under no obligation to reimburse such costs if for any reason the applicant does not receive an award or if the award is made for a lesser amount than the applicant expected.

## H. OTHER SUBMISSION AND REGISTRATION REQUIREMENTS.

### 1. Where to Submit.

**APPLICATIONS MUST BE SUBMITTED THROUGH GRANTS.GOV TO BE CONSIDERED FOR AWARD.** Submit electronic applications through the “Apply for Grants” function at [www.Grants.gov](http://www.Grants.gov). If you have problems completing the registration process or submitting your application, call Grants.gov at 1-800-518-4726 or send an email to [support@grants.gov](mailto:support@grants.gov).

### 3. Registration Process.

You must COMPLETE the one-time registration process (all steps) before you can submit your first application through Grants.gov (See [www.grants.gov/GetStarted](http://www.grants.gov/GetStarted)). **We recommend that you start this process at least three weeks before the application due date.** It may take 21 days or more to complete the entire process. Use the Grants.gov Organizational Registration Checklists at <http://www.grants.gov/assets/OrganizationRegCheck.pdf> to guide you through the process. **IMPORTANT:** During the CCR registration process, you will be asked to designate an E-Business Point of Contact (EBIZ POC). The EBIZ POC must obtain a special password called “Marketing Partner identification Number” (MPIN). When you have completed the process, you should call the Grants.gov Helpdesk at 1-800-518-4726 to verify that you have completed the final step (i.e. Grants.gov registration).

### 3. Application Receipt Notices.

After an application is submitted, the Authorized Organization Representative (AOR) will receive a series of five e-mails. It is extremely important that the AOR watch for and save each of the emails. It may take up to two (2) business days from application submission to receipt of email Number 2. When the AOR receives email Number 5, it is their responsibility to follow the instructions in the email to logon to IIPS and verify that their application was received by DOE. You will need the Submission Receipt Number (email Number 1) to track a submission. The titles of the five e-mails are:

- Number 1 - Grants.gov Submission Receipt Number
- Number 2 - Grants.gov Submission Validation Receipt for Application Number
- Number 3 - Grants.gov Grantor Agency Retrieval Receipt for Application Number
- Number 4 - Grants.gov Agency Tracking Number Assignment for Application Number
- Number 5 – DOE e-Center Grant Application Received

The last email will contain instructions for the AOR to register with the DOE e-Center. If the AOR is already registered with the DOE e-Center, the title of the last email changes to:

Number 5 – DOE e-Center Grant Application Received and Matched

This email will contain the direct link to the application in IIPS. The AOR will need to enter their DOE e-Center user id and password to access the application.

## **Part V - APPLICATION REVIEW INFORMATION**

### **A. CRITERIA.**

#### **1. Initial Review Criteria.**

Prior to a comprehensive merit evaluation, DOE will perform an initial review in accordance with 10 CFR 605.10(b) to determine that (1) the applicant is eligible for the award; (2) the information required by the announcement has been submitted; (3) all mandatory requirements are satisfied; and (4) the proposed project is responsive to the objectives of the funding opportunity announcement.

#### **2. Merit Review Criteria.**

Applications will be subjected to scientific merit review (peer review) and will be evaluated against the following criteria, listed in descending order of importance as found in 10 CFR Part 605.10 (d), the Office of Science Research Financial Assistance Program. Included with each criterion are the detailed questions that are asked of the reviewers.

##### **1. Scientific and/or technical merit of the project:**

- What important problem(s) in plasma or fusion science does this application address?
- How does the proposed research compare with other research in its field, both in terms of scientific and/or technical merit and originality?
- What is the likelihood that it will lead to new or fundamental advances in its field?
- How adequate are the proposed plans to validate, where appropriate, the theoretical predictions with experimental measurements?

##### **2. Appropriateness of the proposed method or approach:**

- Are the conceptual framework, methods, and analyses adequately developed and likely to lead to scientifically valid conclusions?
- Does the proposed research employ innovative concepts or methods?
- Does the applicant recognize significant potential problems and consider alternative strategies?

##### **3. Competency of the applicant's personnel and adequacy of the proposed resources:**

- How well qualified are the applicant's personnel to carry out the proposed research? (If appropriate, please comment on the scientific reputation and quality of recent research by the principal investigator and other key personnel.)
- Please comment on the applicant's research environment and resources.
- Does the proposed work take advantage of unique facilities and capabilities and/or make good use of collaborative arrangements?

##### **4. Performance under existing award (for renewal applications):**

- Assess the progress the applicants made toward their research goals during the most recent performance period and the impact of the research on the fusion program.

- Have the applicants disseminated the results of their research through publications in peer-reviewed journals, meeting and conference presentations, workshops, or other appropriate means?
- If appropriate, have the applicants attempted to validate their theoretical predictions against experimental results?

**5. Reasonableness and appropriateness of the proposed budget:**

- Are the proposed budget and staffing levels adequate to carry out the proposed research?

The reviewers are also asked to comment on **Other Appropriate Factors:**

- What are the overall strengths and weaknesses of the application?
- Could the proposed research make a significant contribution to another field?
- If applicable, please comment on the educational benefits of the proposed activity.

Applications from large theory groups will also be rated on the synergy of the group. With respect to synergy, the criteria are:

- Clear evidence of collaborative work.
- The extent to which the group addresses difficult problems requiring a team effort.

The Office of Fusion Energy Sciences shall also consider, as part of the evaluation, other available advice or information as well as program policy factors, such as ensuring an appropriate balance among the program areas and within the program areas, ensuring support for major computational efforts, ensuring support for experiments, and quality of previous performance. The selected projects will be required to acknowledge support by DOE in all public communication of the research results.

**B. REVIEW AND SELECTION PROCESS.**

**1. Merit Review.**

Applications that pass the initial review will be subjected to a merit review in accordance with the guidance provided in the “Office of Science Merit Review System for Financial Assistance.” This Merit Review System is available at <http://www.science.doe.gov/grants/merit.html>

**2. Selection.**

The Selection Official will consider the merit review recommendation, program policy factors, and the amount of funds available.

**3. Discussions and Award.**

The Government may enter into discussions with a selected applicant for any reason deemed necessary, including but not limited to: (1) the budget is not appropriate or reasonable for the requirement; (2) only a portion of the application is selected for award; (3) the Government needs additional information to determine that the recipient is capable of complying with the requirements in 10 CFR part 600 and 605; and/or (4) special terms and conditions are required. Failure to resolve satisfactorily the issues identified by the Government will preclude award to the applicant.

**C. ANTICIPATED NOTICE OF SELECTION AND AWARD DATES.**

It is anticipated that project selection will be completed by June 1, 2009.

## **Part VI - AWARD ADMINISTRATION INFORMATION**

### **A. AWARD NOTICES.**

#### **1. Notice of Selection.**

DOE will notify applicants selected for award. This notice of selection is not an authorization to begin performance. (See Part IV.G with respect to the allowability of pre-award costs.)

Organizations whose applications have not been selected will be advised as promptly as possible. This notice will explain why the application was not selected.

#### **2. Notice of Award.**

A Notice of Financial Assistance Award issued by the contracting officer is the authorizing award document. It normally includes, either as an attachment or by reference: 1. Special Terms and Conditions; 2. Applicable program regulations, if any; 3. Application as approved by DOE/NNSA; 4. DOE assistance regulations at 10 CFR Part 600, or, for Federal Demonstration Partnership (FDP) institutions, the FDP terms and conditions; 5. National Policy Assurances to Be Incorporated As Award Terms; 6. Budget Summary; and 7. Federal Assistance Reporting Checklist, which identifies the reporting requirements.

### **B. ADMINISTRATIVE AND NATIONAL POLICY REQUIREMENTS.**

#### **1. Administrative Requirements.**

The administrative requirements for DOE grants and cooperative agreements are contained in 10 CFR Part 600 and 10 CFR Part 605 (See: <http://ecfr.gpoaccess.gov>), except for grants made to Federal Demonstration Partnership (FDP) institutions. The FDP terms and conditions and DOE FDP agency specific terms and conditions are located on the National Science Foundation web site at [http://www.nsf.gov/awards/managing/fed\\_dem\\_part.jsp](http://www.nsf.gov/awards/managing/fed_dem_part.jsp).

#### **2. Special Terms and Conditions and National Policy Requirements.**

##### **Special Terms and Conditions and National Policy Requirements.**

The DOE Special Terms and Conditions for Use in Most Grants and Cooperative Agreements are located at [http://management.energy.gov/business\\_doe/business\\_forms.htm](http://management.energy.gov/business_doe/business_forms.htm). The National Policy Assurances to Be Incorporated As Award Terms are located at [http://management.energy.gov/business\\_doe/business\\_forms.htm](http://management.energy.gov/business_doe/business_forms.htm).

##### **Intellectual Property Provisions.**

The standard DOE financial assistance intellectual property provisions applicable to the various types of recipients are located at [http://www.gc.energy.gov/financial\\_assistance\\_awards.htm](http://www.gc.energy.gov/financial_assistance_awards.htm).

### **C. REPORTING.**

Reporting requirements are identified on the Federal Assistance Reporting Checklist, DOE F4600.2, attached to the award agreement.

## **PART VII - QUESTIONS/AGENCY CONTACTS**

### **A. QUESTIONS.**

Questions regarding the content of the announcement must be submitted through the “Submit Question” feature of the DOE Industry Interactive Procurement System (IIPS) at <http://e-center.doe.gov>. Locate the program announcement on IIPS and then click on the “Submit Question” button. Enter required information. You will receive an electronic notification that your question has been answered. DOE will try to respond to a question within 3 business days, unless a similar question and answer have already been posted on the website.

Questions relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or [support@grants.gov](mailto:support@grants.gov). DOE cannot answer these questions.

### **B. AGENCY CONTACT:**

**GENERAL INQUIRIES ABOUT THIS NOTICE SHOULD BE DIRECTED TO:**

#### **Technical/Scientific Contact:**

**Dr. Michael Crisp**, Office of Fusion Energy Sciences, SC-24.2

PHONE: (301) 903-4883

FAX: (301) 903-4716

E-MAIL: [Michael.Crisp@science.doe.gov](mailto:Michael.Crisp@science.doe.gov)

## **PART VIII - OTHER INFORMATION**

### **A. MODIFICATIONS.**

Notices of any modifications to this announcement will be posted on Grants.gov and the DOE Industry Interactive Procurement System (IIPS). You can receive an email when a modification or an announcement message is posted by joining the mailing list for this announcement through the link in IIPS. When you download the application at Grants.gov, you can also register to receive notifications of changes through Grants.gov.

### **B. GOVERNMENT RIGHT TO REJECT OR NEGOTIATE.**

DOE reserves the right, without qualification, to reject any or all applications received in response to this announcement and to select any application, in whole or in part, as a basis for negotiation and/or award.

### **C. COMMITMENT OF PUBLIC FUNDS.**

The Contracting Officer is the only individual who can make awards or commit the Government to the expenditure of public funds. A commitment by other than the Contracting Officer, either explicit or implied, is invalid.

### **D. PROPRIETARY APPLICATION INFORMATION.**

Patentable ideas, trade secrets, proprietary or confidential commercial or financial information, disclosure of which may harm the applicant, should be included in an application only when such information is necessary to convey an understanding of the proposed project. The use and disclosure of such data may be restricted, provided the applicant includes the following legend on the first page of the project narrative and specifies the pages of the application which are to be restricted:

“The data contained in pages \_\_\_\_\_ of this application have been submitted in confidence and contain trade secrets or proprietary information, and such data shall be used or disclosed only for evaluation purposes, provided that if this applicant receives an award as a result of or in connection with the submission of this application, DOE shall have the right to use or disclose the data herein to the extent provided in the award. This restriction does not limit the government’s right to use or disclose data obtained without restriction from any source, including the applicant.”

To protect such data, each line or paragraph on the pages containing such data must be specifically identified and marked with a legend similar to the following:

“The following contains proprietary information that (name of applicant) requests not be released to persons outside the Government, except for purposes of review and evaluation.”

### **E. EVALUATION AND ADMINISTRATION BY NON-FEDERAL PERSONNEL.**

In conducting the merit review evaluation, the Government may seek the advice of qualified non-Federal personnel as reviewers. The Government may also use non-Federal personnel to conduct routine, nondiscretionary administrative activities. The applicant, by submitting its application, consents to the use of non-Federal reviewers/administrators. Non-Federal

reviewers must sign conflict of interest and non-disclosure agreements prior to reviewing an application. Non-Federal personnel conducting administrative activities must sign a non-disclosure agreement.

#### **F. INTELLECTUAL PROPERTY DEVELOPED UNDER THIS PROGRAM.**

Patent Rights. The government will have certain statutory rights in an invention that is conceived or first actually reduced to practice under a DOE award. 42 U.S.C. 5908 provides that title to such inventions vests in the United States, except where 35 U.S.C. 202 provides otherwise for nonprofit organizations or small business firms. However, the Secretary of Energy may waive all or any part of the rights of the United States subject to certain conditions. (See “Notice of Right to Request Patent Waiver” in paragraph G below.)

Rights in Technical Data. Normally, the government has unlimited rights in technical data created under a DOE agreement. Delivery or third party licensing of proprietary software or data developed solely at private expense will not normally be required except as specifically negotiated in a particular agreement to satisfy DOE’s own needs or to insure the commercialization of technology developed under a DOE agreement.

#### **G. NOTICE OF RIGHT TO REQUEST PATENT WAIVER.**

Applicants may request a waiver of all or any part of the rights of the United States in inventions conceived or first actually reduced to practice in performance of an agreement as a result of this announcement, in advance of or within 30 days after the effective date of the award. Even if such advance waiver is not requested or the request is denied, the recipient will have a continuing right under the award to request a waiver of the rights of the United States in identified inventions, i.e., individual inventions conceived or first actually reduced to practice in performance of the award. Any patent waiver that may be granted is subject to certain terms and conditions in 10 CFR 784.

Domestic small businesses and domestic nonprofit organizations will receive the patent rights clause at 37 CFR 401.14, i.e., the implementation of the Bayh-Dole Act. This clause permits domestic small business and domestic nonprofit organizations to retain title to subject inventions. Therefore, small businesses and nonprofit organizations do not need to request a waiver.

#### **H. NOTICE REGARDING ELIGIBLE/INELIGIBLE ACTIVITIES.**

Eligible activities under this program include those which describe and promote the understanding of scientific and technical aspects of specific energy technologies, but not those which encourage or support political activities such as the collection and dissemination of information related to potential, planned or pending legislation.

**I. AVAILABILITY OF FUNDS**

Funds are not presently available for this award. The Government's obligation under this award is contingent upon the availability of appropriated funds from which payment for award purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this award and until the awardee receives notice of such availability, to be confirmed in writing by the Contracting Officer