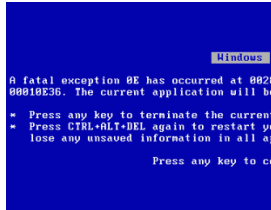


# Computer and Information Sciences



Courtesy: [Dreaded Blue Screen of Death](http://www.frcos.com/cgi-bin/getRec?id=20021017a16)

## Computer Science

**United States Department of Energy (DOE)**

**Deadline:** Continuous

**Amount:** The award amount is unspecified. It is anticipated that approximately \$400,000,000 will be available for grant and cooperative agreement awards.

**Abstract:** The Computer Science section focuses on research in computer science to enable large scientific applications through advances in massively parallel computing such as very lightweight operating systems for parallel computers, distributed computing such as development of the Parallel Virtual Machine (PVM) software package which has become an industry standard, and large scale data management and visualization. The development of new computer and computational science techniques will allow scientists to use the most advanced computers without being overwhelmed by the complexity of rewriting their codes every 18 months.

**Contact:**

Director  
Grants and Contracts Division  
Office of Science, SC-64  
U.S. Department of Energy  
19901 Germantown Road  
Germantown, MD 20874-1290  
Phone: (301) 903-5800

<http://fr.cos.com/cgi-bin/getRec?id=20021017a16>

## Networking

**United States Department of Energy (DOE)**

**Deadline:** Continuous

**Amount:** The award amount is unspecified. It is anticipated that approximately \$400,000,000 will be available for grant and cooperative agreement awards.

**Abstract:** The Networking section focuses on research in high performance networks and information surety required to support high performance applications - protocols for high performance networks, methods for measuring the performance of high performance networks, and software to enable high speed connections between high performance computers and networks. The development of high speed communications and collaboration technologies will allow scientists to view, compare, and integrate data from multiple sources remotely.

**Contact:**

Director  
Grants and Contracts Division  
Office of Science, SC-64  
U.S. Department of Energy  
19901 Germantown Road  
Germantown, MD 20874-1290  
Phone: (301) 903-5800

<http://fr.cos.com/cgi-bin/getRec?id=20021017a16>

**New and Innovative Ideas in Integration and Interoperability**  
**United States Department of Defense (DOD)**

**Deadline:** Continuous

**Amount:** \$100,000 - \$2,500,000

**Abstract:** The government is interested in receiving proposals from all offerors capable of satisfying the its needs on research and new and innovative technologies to advance its capability in single integrated air picture technologies (SIAP) and cruise missile defense infrastructure technologies. Proposals with new and innovative technologies which enhance the state-of-the-art and scientific knowledge are solicited.

**Contact:**

M.D. Batts

U.S. Army Space and Missile Defense Command

Deputy Commander

Attn: SMDC-CM-AP

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Fax: (256) 955-4240

Mailto:

[m.d.batts@smdc.army.mil](mailto:m.d.batts@smdc.army.mil)

<http://www.smdc.army.mil/Contracts/BA.html>

**Innovation Awards**

**Virginia's Center for Innovative Technology (CIT)**

**Deadline:** Continuous

**Amount:** \$30,000 Financial support up to \$30,000 may be requested from CIT towards overall project costs. Cost sharing by the applicant is a requirement and should be discussed with the CIT regional director early in the proposal development process. At a minimum, the

applicant must provide cash support for the project at a minimum of 50 percent of the amount requested from CIT if a small company (under 500 employees) or 100 percent if a large company.

Applicants are encouraged to provide more than the minimum whenever possible, and should also list other in-kind (value of donated equipment, value of staff time dedicated to the project, etc.) or associated funds (grants from other sources) to demonstrate their overall financial commitment toward developing the technology. During the evaluation process, emphasis is placed on proposals that exceed the minimum cash match.

**Abstract:** The goal of Virginia's Center for Innovative Technology (CIT) is to advance the Commonwealth of Virginia's position as a world technology and Internet leader, and to assist in creating, retaining, and attracting technology-based jobs and businesses. CIT forges partnerships between business, government, and academia to create an environment in the Commonwealth conducive to the creation and expansion of high-technology businesses.

Through its Awards Program, CIT supports industrially significant technology development projects and partnerships to leverage public and private research and development dollars, to create and retain companies, and to contribute to the bottom line of Virginia's technology-based businesses by improving their competitiveness.

**Contact:**

Virginia's Center for Innovative Technology

CIT Tower, Suite 600

2214 Rock Hill Road

Herndon, VA 20170-4200

Phone: (703) 689-3000

Fax: (703) 464-1719  
Mailto: [Awards@cit.org](mailto:Awards@cit.org)  
[http://www.cit.org/tech\\_development.as  
p](http://www.cit.org/tech_development.asp)

**Program Composition of Embedded Systems (PCES)**

**United States Department of Defense (DOD)**

**Deadline:** Continuous

**Amount:** Unknown

**Abstract:** The objective of the Program Composition for Embedded Systems (PCES) is to create new language and compiler technology for developing distributed real-time and embedded (DRE) middleware and applications that reduce complexity by separating application functional concerns (such as exploitation algorithms, rules of engagement processing, or weapons targeting) from cross-cutting systemic concerns (such as synchronization of concurrent operations, processor fault isolation, sensor input and actuator output timing constraints, distribution, and safe/efficient cache, register, and memory management).

**Contact:**

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Contract Management Office  
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[http://fedbizopps.cos.com/cgi-  
bin/getRec?id=20021118a7](http://fedbizopps.cos.com/cgi-bin/getRec?id=20021118a7)

**Computer Aided Software Engineering (CASE) Tools (Topic 2.3.5)**

**United States Department of Defense (DOD)**

**Deadline:** Continuous

**Amount:** All offers under \$100,000 shall be proposed on a firm-fixed-price completion basis. All offers over \$100,000 shall be proposed on a cost-reimbursement (cost plus fixed fee, cost (no fee), or cost sharing) completion basis. Proposals submitted in response to this BAA may be for a period of performance up to five years.

**Abstract:** The Naval Air Warfare Center Training Systems Division (NAWCTSD) contracts with educational institutions, nonprofit organizations, and private industry for research and development (R&D) in the areas of Training Technology and Methodology, Simulation Systems, and Computer Applications. This broad agency announcement (BAA) is intended to cover, in general, all R&D areas of interest to NAWCTSD and its customers relating to simulation and training technology. NAWCTSD has comprehensive simulation training system responsibilities ranging from research and technology-based development through system acquisition and life cycle support. The requirement for R&D conducted under this BAA is to explore unique training technologies incorporating innovative behavioral and engineering technologies that are needed for more effective and less expensive training systems.

The requirements for large software developments have out-paced tools and techniques for effectively monitoring and managing these efforts. Efficient tools for software maintenance are also required. Research is required to develop new tools or integrate existing tools in order to address the full spectrum of a software project. An effective Computer Aided Software Engineering (CASE) tool should address the software development process, management, and

software maintenance. Many CASE tools have the capability of extracting metrics from software that has been written. Research is required to correlate these metric data with some measure of recognized quality (e.g., maintainability and modifiability) of the already written software. The research may include soliciting agreement on the methodology and the quality identifiers. This research is needed because no one can know what the CASE tool generated metrics really mean in terms of cost effectiveness.

**Contact:**

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Code 257, 12350 Research Parkway  
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Mailto: [CranstonKL@navair.navy.mil](mailto:CranstonKL@navair.navy.mil)  
[http://www.ntsc.navy.mil/EBusiness/BusOps/Acquisitions/preview.cfm?RFP\\_ID=414&doc\\_type=2](http://www.ntsc.navy.mil/EBusiness/BusOps/Acquisitions/preview.cfm?RFP_ID=414&doc_type=2)

**Reusable Software**

**United States Department of Defense**

**Deadline:** Continuous

**Amount:** All offers under \$100,000 shall be proposed on a firm-fixed-price completion basis. All offers over \$100,000 shall be proposed on a cost-reimbursement (cost plus fixed fee, cost (no fee), or cost sharing) completion basis.

Proposals submitted in response to this BAA may be for a period of performance up to five years.

**Abstract:** The Naval Air Warfare Center Training Systems Division (NAWCTSD) contracts with educational institutions, nonprofit organizations, and private industry for research and development (R&D) in the areas of Training Technology and Methodology, Simulation Systems, and Computer Applications. This broad agency

announcement (BAA) is intended to cover, in general, all R&D areas of interest to NAWCTSD and its customers relating to simulation and training technology. NAWCTSD has comprehensive simulation training system responsibilities ranging from research and technology-based development through system acquisition and life cycle support. The requirement for R&D conducted under this BAA is to explore unique training technologies incorporating innovative behavioral and engineering technologies that are needed for more effective and less expensive training systems.

The ability of the software industry to produce high quality and easily maintainable software to support the Navy's large scale training systems has been outstripped by the large demands. Reuse of existing software has been envisioned as a means for alleviating this deficiency. To date, however, this vision has not been realized to any large extent, because there is a lack of a defined path for institutionalizing reuse into training system software production and because there is still little known about the characteristics of software that make it reusable. Appropriate means for incorporating the potentials for reuse offered by the object-oriented paradigms, such as inheritance and polymorphism, into large scale software systems need to be explored. In addition, the Software Technology for Adaptable, Reliable Systems (STARS) program has established demonstration projects within several specific domains to determine the characteristics of software which make it reusable and identify processes (currently called Metaprogramming) required to build potentially reusable software. Research is required to expand and apply the

findings of the STARS demonstration projects to other domains or problem areas. Also, research is required to improve means for expediting the

- identification,
- collection,
- cataloguing,
- assessing, and
- dissemination of reusable software.

**Contact:**

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[http://www.ntsc.navy.mil/EBusiness/BusOps/Acquisitions/preview.cfm?RFP\\_ID=414&doc\\_type=2](http://www.ntsc.navy.mil/EBusiness/BusOps/Acquisitions/preview.cfm?RFP_ID=414&doc_type=2)

**Digital Data Embedding Technologies**

**United States Department of Defense**

**Deadline:** Continuous

**Amount:** \$25,000 - \$2,000,000

**Abstract:** The Information Directorate of the Air Force Research Laboratory (AFRL) at the Rome Research site is seeking firms to conduct applied research and advanced technology development in Digital Data Embedding Technologies (DDET), such as information hiding, steganography, watermarking, steganalysis, embedded data extraction, digital data forensics, etcetera. Information hiding and data embedding refer to secure addition of information content to digital data products using mathematical techniques that work at the constructive level of the product. Steganography refers to the use of data embedding for covert communication. Watermarking refers to embedding additional information about the cover data. Steganalysis detects the presence of steganographic communications. Embedded data

extraction refers to the extrication of hidden information. Digital data forensics refers to analysis that gathers evidence of data composition, origin, pedigree, etcetera.

The primary digital data types of interest include imagery, video, and audio. This program will develop, employ, and exploit digital data embedding technologies to provide early demonstrations for potential applications to operational Department of Defense (DOD) systems. It will also enhance existing and maturing technologies and provide a vehicle for continued development over its duration. The objective of this procurement is to assist the government in the technical development of DDET technologies, for evaluation and selection of transitionable technologies, and in prototype demonstrations of these technologies into appropriate systems. These systems could include

- the Distributed Common Ground System (DCGS) ,
- the Combined Air Operations Center - Experimental (CAOC-X),
- systems at the National Imagery and Mapping Agency (NIMA) and National Air Intelligence Center (NAIC), or
- others as applicable.

Additional contacts include Mr. Scott F. Adams, AFRL/IFEC program manager, +1 (315) 330-1430,

[Scott.Adams@afrl.af.mil](mailto:Scott.Adams@afrl.af.mil); and Mr. Richard J. Simard, technical points of contact, +1 (315) 330-4104, [Richard.Simard@afrl.af.mil](mailto:Richard.Simard@afrl.af.mil).

**Contact:**

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Air Force Materiel Command, AFRL - Rome Research Site  
AFRL/Information Directorate  
26 Electronic Parkway

Rome, NY 13441-4514  
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Mailto: [Joetta.Bernhard@rl.af.mil](mailto:Joetta.Bernhard@rl.af.mil)  
<http://fedbizopps.cos.com/cgi-bin/getRec?id=20020315a14>

**SIGINT Correlation and Fusion (BAA)**

**United States Department of Defense (DOD)**

**Deadline:** Continuous

**Amount:** \$500,000. Awards will not normally exceed \$500,000 in value and 18 months in duration. Awards of efforts as a result of this BAA will be in the form of contracts, grants, cooperative agreements, or other transactions depending upon the nature of the work proposed. Total funding for the BAA is \$4,750,000.

**Abstract:** The Information Directorate of the Air Force Research Laboratory (AFRL) is soliciting white papers under this announcement for various scientific studies and experiments to increase the AFRL's knowledge and understanding of correlation and fusion techniques and algorithms required in support of air force operations. Solutions using new and innovative approaches are sought. The scope of this effort covers a broad range of requirements in the area of SIGINT correlation and fusion. Major areas of interest include, but are not limited to: collection, analysis, processing, and dissemination of SIGINT related information. Emphasis is placed on the insertion of technology into existing and planned intelligence, surveillance, and reconnaissance systems.

**Contact:**

Joetta Bernhard, Contracting Officer

Air Force Research Laboratory/IFEA  
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Rome, NY 13441-4114  
Phone: (315) 330-2308  
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Mailto: [bernhard@rl.af.mil](mailto:bernhard@rl.af.mil)  
<http://www.eps.gov/spg/USAF/AFMC/AFRLRRS/Reference-Number-BAA-00-03-IFKPA/listing.html>

**Tech Museum Awards Program**

**Tech Museum of Innovation**

**Deadline:** May 02, 2003

**Amount:** \$50,000. Each category winner will be awarded \$50,000.

**Abstract:** The Tech Museum Awards honor innovators and visionaries from around the world who are applying technology to profoundly improve the human condition in the categories of education, equality, environment, health, and economic development. Each year, candidates are nominated and then invited to submit applications.

**Contact:**

Tech Museum of Innovation  
201 South Market Street  
San Jose, CA 95113  
Phone: (408) 795-6338  
Mailto: [techawards@thetech.org](mailto:techawards@thetech.org)  
<http://www.thetech.org/techawards/>

**Advanced Speech Encoding**

**United States Department of Defense (DOD)**

**Deadline:** May 02, 2003

**Amount:** Unspecified

**Abstract:** The program goal is to investigate the implications to military voice communications associated with direct measurement of the glottal waveform, to include noise reduction in military environments, reduction of voice communication bit rates, and speaker authentication. A specific

goal for this program is to provide in the noise environments associated with military operations robust voice communication at bit rates less than about 1 kb per second (with a program goal of 300 bps or less), while maintaining the speech intelligibility currently available in acoustically benign environments from the current DoD standard voice encoder (vocoder).

**Contact:**

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Department of the Navy  
Naval Sea Systems Command  
NAVSEA Headquarters, Code 027  
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Washington Navy Yard, DC 20376  
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<http://fedbizopps.cos.com/cgi-bin/getRec?id=20020423a5>

**Experimental Infrastructure Network (EIN)**

**National Science Foundation (NSF)**

**Deadline:** May 08, 2003

**Amount:** \$7,000,000. The anticipated program funding is \$10,000,000 in FY 2003 as standard or continuing grants or cooperative agreements. The final program budget, number of awards, and average award size or duration are subject to the availability of funds. The estimated award size may be \$1,400,000 per year for three to five years.

Abstract: The purpose of the National Science Foundation (NSF) Experimental Infrastructure Networks (EIN) is to establish, address, explore, and experiment with next generation network infrastructure technologies to meet the rapidly emerging requirements of e-Science and other advanced applications that are not being addressed by today's research networks (e.g., Abilene or

vBNS) or the Internet. The EIN will be driven by applications that push the leading edges of network technologies and capabilities, such as higher bandwidth, alternate protocols, performance, latency, and guaranteed levels of service. The EIN program blurs the traditional demarcation points normally associated with computing, networking, and storage technologies, as one of the goals of the EIN program is to meet the needs of next generation applications without being constrained by existing infrastructure deployments, capabilities, or approaches.

The purpose of this announcement is to enable members of the advanced network community (universities, government agencies, nonprofit organizations, and industrial units) to collaborate in establishing, developing, exploring, and experimenting with new types of networking infrastructure to support novel high performance applications. The Experimental Infrastructure Networks must be robust enough to support application-driven development of software application toolkits, middleware, computing, and networking. EIN projects must also provide enough "persistence" to be useful to the application scientists and engineers, and yet be able to accommodate and encourage experimentation with innovative and novel approaches to networking architectures and technologies. EIN proposals are expected to directly address how application scientists will accommodate network experimentation and network service.

The EIN program encourages collaboration between application scientists and engineers, and the networking community, and will involve a variety of disciplines and geographic

locations, depending on application requirements. Features of the EIN include one or more applications that require network capabilities not available on today's production network; end-to-end support to the applications; and creative and innovative network infrastructure projects involving a combination of academic, government, and industry partners.

An additional contact is Kevin L. Thompson, special projects program director, Directorate for Computer and Information Science and Engineering, Division of Advanced Networking Infrastructure and Research, phone +1 (703) 292-8948, fax +1 (703) 292-9010, [kthompso@nsf.gov](mailto:kthompso@nsf.gov).

**Contact:**

Alan R. Blatecky, Program Director  
National Science Foundation  
Directorate for Computer and  
Information Science and Engineering  
Division of Advanced Networking  
Infrastructure and Research  
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<http://www.nsf.gov/cgi-bin/getpub?nsf03539>

**The Human Brain Project  
(Neuroinformatics): Phase I & Phase  
II - NASA**

**National Aeronautics and Space  
Administration (NASA)**

**Deadline:** May 21, 2003

**Amount:** Unknown

**Abstract:** The purpose of this initiative is to encourage and support investigator-initiated neuroinformatics research that will lead to new digital and electronic tools for all domains of neuroscience research reflecting normal and diseased

states across the life span.

Neuroinformatics combines neuroscience and informatics research to develop and apply advanced tools and approaches essential for a major advancement in understanding the structure and function of the brain.

Research in informatics includes

- databases,
- graphical interfaces,
- querying approaches,
- information retrieval,
- data visualization and manipulation,
- data integration through the development of integrated analytical tools,
- synthesis, and
- tools for electronic collaboration.

In computational research, the focus is on development of structural, functional, integrative, and analytical models and simulations. The advanced information technologies resulting from this research will be put to wide use by the neuroscience community. Therefore, the approaches and technologies solicited under this announcement should be generalizable, scalable, extensible, interoperable, and use sophisticated powerful computational resources and integrated with significant neuroscience research at and across all levels of analysis of brain function.

Phase I of the Human Brain Project supports feasibility research on advanced technologies and novel ways to acquire, store, retrieve, manage, analyze, visualize, manipulate, integrate, synthesize, disseminate, and share data about neuroscience research, including tools for electronic collaboration. The Human Brain Project supports investigator-initiated projects that require both an informatics research component and a neuroscience (brain or behavioral) research component, with

these two components well integrated with one another. Projects that focus only upon archival data are not appropriate for the Human Brain Project, but projects are encouraged to include legacy data in their informatics component.

Phase II of the Human Brain Project extends and shares those products developed under Phase I with appropriate improvements, documentation, and testing at multiple sites to move towards the distribution of the advanced technologies or tools to the wider community that will occur in Phase III. Phase II applications should include the necessary research components to

- build the elements necessary for the construction of maps and models (computational neuroscience);
- ensure that databases in this area of research will be interoperable with other database resources;
- incorporate the capability for the addition or linkage with legacy data; and
- present a plan for the continued support of these capabilities.

This program will use the research project grant (R01), exploratory center grant (P20), and the program project (P01) mechanisms for supporting neuroinformatics research.

**Contact:**

Marc Shepanek, Ph.D.

National Aeronautics and Space Administration

300 E Street, SW

Washington, DC 20546

Phone: (202) 358-2201

Fax: (202) 358-4168

Mailto: [mshepane@hq.nasa.gov](mailto:mshepane@hq.nasa.gov)

<http://www.nimh.nih.gov/neuroinformatics/announce.cfm>

**NSF/USDOT Partnership for Exploratory Basic Research on Information and Communication Systems for Surface Transportation NSF**

**Deadline:** June 11, 2003

**Amount:** \$150,000. The program will support basic research for awards ranging from a maximum of \$100,000 for single investigator proposals and a maximum of \$150,000 for multiple investigator proposals. The award duration may not exceed 18 months. The awards target exploratory research, intended to test high-risk/high-payoff research ideas. The estimated program budget, number of awards, and average award size and duration are subject to the availability of funds. NSF anticipates funds of approximately \$1,150,000 in FY 2003, subject to availability. USDOT is expected to contribute \$500,000 of these funds, and qualified USDOT personnel will participate in the review process.

**Abstract:** The Directorate for Engineering of the National Science Foundation (NSF) announces the third year of this program jointly sponsored with the U.S. Department of Transportation (USDOT) for Exploratory Basic Research on Information and Communications Systems for Surface Transportation. The NSF/USDOT program offers a flexible vehicle for pursuing potentially high-risk and high-payoff research. Research topics must target innovative strategies for exploiting state-of-the-art information and information/communication technologies in surface transportation systems to meet the challenges and constraints associated with mobility. One aspect of this program is intended to foster innovative uses of technology in

all modes of surface transportation in a spirit similar to Intelligent Transportation Systems. It is also meant to spur integrative, multidisciplinary research needed to understand and manage the complexity and vulnerability of surface transportation systems and their interactions with natural, social, and economic systems.

**Contact:**

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<http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf03556>

**University Microfilms International (UMI) Doctoral Dissertation Award**  
**American Society for Information Science and Technology (ASIST) Annual Awards**

**Deadline:** June 15, 2003

**Amount:** \$1,000 - \$1,500. The award consists of \$1,000. Additionally, UMI will contribute \$500 towards travel or other expenses to the grant recipient, contingent upon the recipient's attending the ASIST annual meeting, as well as a certificate. Travel reimbursements will be made four to six weeks after receipts are submitted to ASIST headquarters.

The winner may be given the opportunity to present a summary of the doctoral research at the doctoral forum.

**Abstract:** The purpose of this award is to recognize outstanding recent doctoral candidates whose research contributes significantly to an understanding of some aspect of **information** science. The

award is intended to encourage participation of new Ph.D.s in the activities of a professional association by providing a forum for presentation of their research and assisting them with some travel support. The award is sponsored by University Microfilms International (UMI) and is administered by the American Society for **Information Science and Technology (ASIST)**.

The 2002 meeting will be held in Philadelphia, Pennsylvania.

Dissertations submitted shall fall within the scope of **information** science, including, but not limited to, any of the following areas of investigation:

- Automated language processing
- Classification research
- Computerized retrieval services
- Education for **information** science
- **Information** analysis and evaluation
- **Information** policy
- **Information** services
- **Information** storage and retrieval
- International **information** issues
- Library automation and networks
- Management of **information**
- Office **information** systems
- **Information** generation and publishing
- Storage and retrieval technology
- User-online interaction

**Contact:**

American Society for Information Science and Technology  
1320 Fenwick Lane  
Suite 510  
Silver Spring, MD 20910  
Phone: (301) 495-0900  
Fax: (301) 495-0810  
Mailto: [asis@asis.org](mailto:asis@asis.org)  
<http://www.asis.org/awards/docdissumi.htm>

**Information Analysis Technologies: Test and Multimedia Information Extraction, Report Authoring Aids**

**United States Department of Defense (DOD)**

**Deadline:** June 17, 2003

**Amount:** \$100,000. Approximately \$20,000,000 of federal funds will be available for proposals in response to the topic areas in this BAA. The estimated federal funding contribution for this topic area is \$100,000. The contractor must bear at least 50 percent of the cost of the effort and at least 50 percent of this cost share must be high quality (i.e., cash, labor, or consumable materials). The government may make multiple awards in a topic area depending, in part, on the cost of individual proposals and available funding. Awards will be made using a class of nonprocurement instruments called Technology Investment Agreements (TIAs), in the form of Cooperative Agreements (CAs) and Other Transactions (OTs). The program duration is 24 months.

**Abstract:** The objective of this topic is to develop technologies that support information extraction and intelligence summarization tasks. Computer-based analysis and visualization tools can assist in the interpretation of vast amounts of information but the information must first be made accessible to those tools. It must be extracted from its original sources and specially formatted for eventual presentation to decision-makers in a succinct format.

Additional contacts include the following:

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Sharon M. Walter, AFRL/IFEA, phone +1 (315) 330-7890, DSN 587-7890, fax +1 (315) 330-2728, [Sharon.Walter@rl.af.mil](mailto:Sharon.Walter@rl.af.mil)

Elaine Newman, AFRL/IFKA, +1 (315) 330-2830, DSN 587-2830, [Elaine.Newman@rl.af.mil](mailto:Elaine.Newman@rl.af.mil)

**Contact:**

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**Universal Memory for Space**  
**United States Department of Defense (DOD)**

**Deadline:** June 17, 2003

**Amount:** \$1,000,000. Approximately \$20,000,000 of federal funds will be available for proposals in response to the topic areas in this BAA. The estimated federal funding contribution is \$1,000,000. The contractor must bear at least 50 percent of the cost of the effort and at least 50 percent of this cost share must be high quality (i.e., cash, labor, or consumable materials). The government may make multiple awards in a topic area depending, in part, on the cost of individual proposals and available funding. Awards will be made using a class of nonprocurement instruments called Technology Investment Agreements (TIAs), in the form of Cooperative Agreements (CAs) and Other Transactions (OTs). The program duration is 24 months.

**Abstract:** The objective of this topic is to improve memory technologies toward a universally applicable memory product.

Additional contacts include the following:

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**Dynamic Quarantine of Computer-  
Based Attacks Against Military  
Enterprise Networks**

**United States Department of Defense  
(DOD)**

**Deadline:** March 06, 2004

**Amount:** Total test and evaluation  
funding is anticipated to be  
approximately \$900,000 in Program  
Year (PY) 1, \$1,000,000 in PY2, and  
\$1,500,000 in PY3. The base and option  
periods for this project are expected to  
continue through FY 2006. The  
government reserves the right to change  
all of these values as it deems necessary.  
The test and evaluation effort will follow  
the program schedule of two 18-month  
phases.

**Abstract:** The Defense Advanced  
Research Projects Agency (DARPA) is  
soliciting proposals for research,  
development, modeling, design, and  
testing to support the Dynamic

Quarantine of Worm-Based Attacks  
Against Military Enterprise Networks  
program.

The objectives of this program are to (1)  
develop technologies to automatically  
and dynamically quarantine zero-day (or  
novel) worms to a peak infection  
proportion of one percent of vulnerable  
machines that would otherwise infect  
approximately 100 percent of vulnerable  
machines in military enterprise  
networks, and (2) to reduce the time to  
recovery after attack for mission-critical  
applications that run distributed over  
vulnerable machines from days and  
hours to minutes and seconds.

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**Sensor, Communication, Information,  
and Integration Technologies**

**United States Department of Defense  
(DOD)**

**Deadline:** March 06, 2004

**Amount:** Unknown

**Abstract:** The Naval Air Systems  
Command (NAVAIR) is soliciting  
proposals for research and development  
(R&D) concepts in sensor,  
communication, information, and  
integration technologies. Concepts  
proposed may represent novel dedicated  
technologies or dual use of new  
emerging commercial technology. The  
overall program objectives are  
- to explore and develop concepts and  
capability for next generation advanced  
surveillance radar and electronics testbed  
on Makaha Ridge, Kauai-Advanced

Integrated Radar, Electronics, and  
Photonics (AIREP);

- to explore advanced mobile command and control capability utilizing airborne communications relay-Mobile Modular Command Center (M2C2);
- certify the sustainability and safety of candidate systems; and
- promote those systems through the procurement process.

The end goal is to transition needed products to the acquisition community.

**Contact:**

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