

BAA 01-07

**Simulation of Bio-Molecular  
Microsystems (SIMBIOSYS)**

**Proposer Information Pamphlet**

- SECTION I: Proposer Information
- SECTION II: Broad Agency Announcement (BAA)  
01-07 Simulation of Bio-Molecular  
Microsystems (SIMBIOSYS)
- SECTION III: Defense Advanced Research Projects  
Agency/Microsystems Technology Office  
(DARPA/MTO)

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COORDINATING POC:

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FAX: (703) 696-2206 .

Dear **BAA 01-07** Proposer Information Requester:

The BAA 01-07 Proposer Information Pamphlet is enclosed in response to your request. This pamphlet is divided into three sections.

**SECTION I: Proposer Information** provides further information on **Simulation of Bio-Molecular Microsystems (SIMBIOSYS)**, the submission, evaluation, and funding processes, proposal and proposal abstract formats, and other general information.

**SECTION II: Broad Agency Announcement (BAA) 01-07 Simulation of Bio-Molecular Microsystems (SIMBIOSYS)** is a reprint of the BAA which was published in the *Commerce Business Daily* by the U. S. Government, Department of Commerce.

**SECTION III: Defense Advanced Research Projects Agency/Microsystems Technology Office (DARPA/MTO)** provides information on current programs within MTO.

Thank you for your interest in BAA 01-07 **Simulation of Bio-Molecular Microsystems (SIMBIOSYS)**.

Sincerely,

Anantha Krishnan, Sc.D.  
Program Manager  
Microsystems Technology Office

## SECTION I: BAA 01-07 Proposer Information

**This section provides further information on Simulation of Bio-Molecular Microsystems (SIMBIOSYS), the submission, evaluation, and funding processes, proposal and proposal abstract formats, and other general information.**

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The Defense Advanced Research Projects Agency (DARPA) often selects its research efforts through the Broad Agency Announcement (BAA) process. The BAA will appear first in the *Commerce Business Daily*, published by the U. S. Government, Department of Commerce. The following information is for those wishing to respond to the BAA.

DARPA is soliciting innovative research proposals in the area of experimental and theoretical analyses of Bio-Molecular Microsystems. Phenomena of interest include molecular recognition processes, transduction of molecular signals into measurable electrical/optical/mechanical signals, and bio-fluidic transport in microsystems. Synergistic and complementary efforts integrating fundamental experiments and theoretical modeling are sought to enable the characterization, quantification (scaling) and control of the above phenomena. Proposed research should investigate innovative approaches that enable revolutionary improvements in the sensitivity, specificity, speed, efficiency and affordability of sensing and detection mechanisms relevant to DoD applications. One of the important goals of SIMBIOSYS is the development and demonstration of advanced computational modeling and simulation tools consisting of scaling rules and phenomenological relationships for the analysis and design of high performance bio-molecular microsystems.

### AREAS OF INTEREST

Areas of interest include:

**I. Molecular recognition processes:** Most bio-molecular sensing systems rely on molecular recognition processes such as interactions between antibody-antigen, enzyme-substrate, DNA hybridization, ion channels, etc. This area calls for the development of a quantitative description of the chemistry of the (ligand-receptor) recognition process through fundamental experiments and computational models. The objective is to obtain mechanisms and rate constants for recognition processes for various classes of bio-molecules.

**II. Transduction of the molecular recognition signal into electrical, optical or mechanical signals:** Quantitative characterization of the transduction process is important for performing on-chip detection of the presence and concentration of target bio-molecules. Experimental and theoretical models are sought to describe innovative transduction methods (including signal amplification) that couple molecular recognition to measurable electrical/optical/mechanical responses.

**III. Fluidic transport phenomena:** Fundamental experimental methods as well as computational models are sought to describe fluidic and molecular transport at length scales ranging from nanometers to microns. Processes of interest include various fluid

pumping and processing (separation, mixing, etc.) methods such as electro-kinetic techniques, surface tension modulated transport, etc. Also of interest is the analysis and characterization of the influence of fluidic transport on molecular recognition and signal transduction. This area seeks to develop a quantitative description of the transport of biological/chemical fluids at the micro/nano scale to enable better control, uniformity, efficiency and speed of the transport process.

**IV. Design tools for lab-on-a-chip (LoC) Systems:** The prototyping of LoC Systems would benefit significantly from the availability of design tools. This area focuses on integrating models, databases and design rules into a formal design environment/framework, demonstrating these design tools in prototyping various components of the bio-fluidic chip, and addressing system level design issues, such as optimizing the interaction between the various components on the chip.

Offerors may address any or all of the above areas. All development efforts should target enabling capabilities for the sensing and detection of biological and chemical fluids relevant to DoD requirements and applications. Examples of target bio-molecules include antigens, enzymes, oligo-nucleotides, cytokines, etc. Proposals should demonstrate a close interaction between fundamental experiments and theoretical modeling in order to be responsive to this solicitation. As stated below, in the Evaluation Criteria section, potential contribution and relevance to DARPA mission, and plans and capability to accomplish technology transition to DoD and the commercial industry are important factors for consideration. Offerors are discouraged from proposing the prototyping of devices/systems. However, the demonstration of models and design tools in collaboration with device/system developers is encouraged.

## **SUBMISSION PROCESS**

The formation of multi-disciplinary teams consisting of industry, academia, and/or national laboratories with complementary areas of expertise is strongly encouraged. To this end, DARPA invites all interested offerors of whatever size or capacity to provide capability statements to assist with teaming arrangements. An interactive web site has been established at URL <http://sukova.sysplan.com/SimbiosysBAA/> in which these capability statements will be posted. The web site will remain active from the date of issuance of this BAA until January 12, 2001. Specific information content, communications, networking, and team formation are the sole responsibilities of the participants. Neither DARPA nor the DoD endorses the destination web site or the information and organizations, contained therein, nor does DARPA or the DoD exercise any responsibility at the destination. This web site is provided consistent with the stated purpose of this BAA.

Proposers are strongly encouraged to submit a proposal abstract in advance of a full proposal. This procedure is intended to minimize unnecessary effort in proposal preparation and review. The time and date for submission of proposal abstracts is specified in the BAA. DARPA will acknowledge receipt of the submission and assign a control number that should be used in all further correspondence regarding the proposal abstract.

DARPA will respond to proposal abstracts with a recommendation to propose or not propose and the time and date for submission of a full proposal. DARPA will attempt to review proposal abstracts within thirty (30) calendar days after receipt and will allow proposers at least thirty (30) calendar days after review of their proposal abstracts in order to complete and submit their full proposals. Proposal abstracts will be reviewed as they are received. Early submissions of proposal abstracts and full proposals are strongly encouraged because selections may be made at any time during the evaluation process. Regardless of the recommendation, the decision to propose is the responsibility of the proposer. All submitted proposals will be fully reviewed regardless of the disposition of the proposal abstract. Proposers not submitting proposal abstracts are required to submit full proposals by the time and date specified in the BAA.

The typical proposal should express a consolidated effort in support of one or more related technical concepts or ideas. Disjoint efforts should not be included into a single proposal.

Restrictive notices notwithstanding, proposals may be handled, for administrative purposes only, by a support contractor. This support contractor is prohibited from competition in DARPA technical research and is bound by appropriate nondisclosure requirements. Proposals and proposal abstracts may not be submitted by fax or e-mail; any so sent will be disregarded.

Awards made under this BAA are subject to the provisions of the Federal Acquisition Regulation (FAR), Subpart 9.5, Organizational Conflict of Interest. All offerors and proposed subcontractors must affirmatively state whether they are providing scientific, engineering and technical assistance (SETA) or similar support to any DARPA technical office(s) through an active contract or subcontract. All affirmations must state which office(s) the offeror supports, and identify the prime contract number. Affirmations should be furnished at the time of proposal submission. All facts relevant to the existence or potential existence of organizational conflicts of interest, as that term is defined in the FAR 9.501, must be disclosed. The disclosure shall include a description of the action the offeror has taken, or proposes to take, to avoid, neutralize or mitigate such conflict.

## **EVALUATION CRITERIA/EVALUATION AND FUNDING PROCESSES**

Proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement. DARPA's intent is to review proposals as soon as possible after they arrive; however, proposals may be reviewed periodically for administrative reasons.

For evaluation purposes, a proposal is the two-volume document described in PROPOSAL FORMAT (see below). Other supporting or background materials submitted with the proposal will be considered for the reviewer's convenience only and not considered part of the proposal.

Evaluation of proposals will be accomplished through a technical review of each proposal using the following criteria, which are listed in descending order of relative importance: (1) overall scientific and technical merit; (2) potential contribution and relevance to the DARPA mission; (3) plans and capability to accomplish technology transition; (4) offeror's capabilities and related experience; and (5) cost realism. Note: cost realism will only be significant in proposals that have significantly under or over-estimated the cost to complete their effort.

As soon as the proposal evaluation is completed, the proposer will be notified of selectability or non-selectability. Selectable proposals will be considered for funding; non-selectable proposals will be destroyed. (One copy of non-selectable proposals may be retained for file purposes.)

Not all proposals deemed selectable will be funded. Decisions to fund selectable proposals will be based on funds available, scientific and technical merit, and potential contribution and relevance to DARPA mission. Proposals may be considered for funding for a period of up to one year. The Government reserves the right to select for award all, some, or none of the proposals received. All responsible sources capable of satisfying the Government's needs may submit a proposal which shall be considered by DARPA.

Proposals identified for funding may result in a procurement contract, grant, cooperative agreement, or other transaction depending upon the nature of the work proposed, the required degree of interaction between parties, and other factors. If warranted, portions of resulting awards may be segregated into pre-priced options.

## **PROPOSAL ABSTRACT FORMAT**

Proposal abstracts are encouraged in advance of full proposals in order to provide potential offerors with a rapid response and to minimize unnecessary effort. Proposal abstracts should follow the same general format as described for Volume I under PROPOSAL FORMAT (see below), but include ONLY Sections I and II. The cover sheet should be clearly marked "PROPOSAL ABSTRACT" and the total length should not exceed ten (10) pages. All pages shall be printed on 8-1/2 by 11 inch paper with type not smaller than 12 point. The page limitation for proposal abstracts includes all figures, tables, and charts. No formal transmittal letter is required.

## **PROPOSAL FORMAT**

All full proposals must be in the format given below. Nonconforming proposals may be rejected without review. Proposals shall consist of two volumes. All pages shall be printed on 8-1/2 by 11 inch paper with type not smaller than 12 point. The page limitation for full proposals includes all figures, tables, and charts. Volume I, Technical and Management Proposal, may include an attached bibliography of relevant technical papers or research notes (published and unpublished) which document the technical ideas and approach upon which the proposal is based. Copies of not more than three (3) relevant papers can be included with the submission. The bibliography and attached papers are not included in the page counts given below. The submission of other supporting materials along with the proposal is strongly discouraged and will not be considered for review. Except for the attached bibliography, Volume I shall not exceed forty-seven (47) pages. Maximum page lengths for each section are shown in braces { } below.

### **Volume I, Technical and Management Proposal**

#### **Section I. Administrative**

A. {1} Cover sheet to include: (1) BAA number; (2) Technical area; (3) Lead Organization Submitting proposal; (4) Type of business, selected among the following categories: "LARGE BUSINESS", "SMALL DISADVANTAGED BUSINESS", "OTHER SMALL BUSINESS", "HBCU", "MI", "OTHER EDUCATIONAL", or "OTHER NONPROFIT"; (5) Contractor's reference number (if any); (6) Other team members (if applicable) and type of business for each; (7) Proposal title; (8) Technical point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available); (9) Administrative point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available), total funds requested from DARPA, and the amount of cost-share (if any); and (10) Date proposal was prepared.

B. {1} Official transmittal letter.

#### **Section II. Summary of Proposal**

This section provides an overview of the proposed work as well as an introduction to the associated technical and management issues. Further elaboration will be provided in Section III.

A. {2} Innovative claims for the proposed research. This section is the centerpiece of the proposal and should succinctly describe the uniqueness and benefits of the proposed approach relative to the current state-of-art and alternate approaches.

B. {1} Deliverables associated with the proposed research and the plans and capability to accomplish technology transition and commercialization. Include in this section all proprietary claims to results, prototypes, intellectual property, or systems supporting and/or necessary for the use of the research, results, and/or prototype. If there are no proprietary claims, this should be stated.

C. {1} Cost, schedule and milestones for the proposed research, including estimates of cost for each task in each year of the effort, total cost and company cost share.

D. {2} Technical rationale, technical approach, and constructive plan for accomplishment of technical goals in support of innovative claims and deliverable production. (In the full proposal, this section should be supplemented by a more detailed plan in Section III.)

E. {1} General discussion of other research in this area.

F. {1} A clearly defined organization chart for the program team which includes, as applicable: (1) the programmatic relationship of team members; (2) the unique capabilities of team members; (3) the task responsibilities of team members; (4) the teaming strategy among the team members; (5) the key personnel along with the amount of effort to be expended by each person during each year.

### Section III. Detailed Proposal Information

This section provides the detailed discussion of the proposed work necessary to enable an in-depth review of the specific technical and managerial issues. Specific attention must be given to addressing both risk and payoff of the proposed work that make it desirable to DARPA.

A. {6} Statement of Work (SOW) written in plain English, outlining the scope of the effort and citing specific tasks to be performed and specific contractor requirements.

B. {4} Description of the results, products, transferable technology, and expected technology transfer path enhancing that of Section II.B.

C. {5} Detailed technical rationale enhancing that of Section II.

- D. {5} Detailed technical approach enhancing and completing that of Section II.
- E. {3} Comparison with other ongoing research indicating advantages and disadvantages of the proposed effort.
- F. {3} Discussion of proposer's previous accomplishments and work in this or closely related research areas.
- G. {2} Description of the facilities that would be used for the proposed effort.
- H. {4} Detail support enhancing that of Section II, including formal teaming agreements which are required to execute this program.
- I. {5} Cost schedule and milestones for the proposed research, including estimates of cost for each task in each year of the effort, total cost, and any company cost share. Where the effort consists of multiple portions which could reasonably be partitioned for purposes of funding, these should be identified as options with separate cost estimates for each.

#### Section IV. Additional Information

A brief bibliography of relevant technical papers and research notes (published and unpublished) which document the technical ideas upon which the proposal is based. Copies of not more than three (3) relevant papers can be included in the submission.

#### **Volume II, Cost Proposal** – {No page limit}

A. Cover sheet to include: (1) BAA number; (2) Technical area; (3) Lead Organization Submitting proposal; (4) Type of business, selected among the following categories: "LARGE BUSINESS", "SMALL DISADVANTAGED BUSINESS", "OTHER SMALL BUSINESS", "HBCU", "MI", "OTHER EDUCATIONAL", or "OTHER NONPROFIT"; (5) Contractor's reference number (if any); (6) Other team members (if applicable) and type of business for each; (7) Proposal title; (8) Technical point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), electronic mail (if available); (9) Administrative point of contact to include: salutation, last name, first name, street address, city, state, zip code, telephone, fax (if available), and electronic mail (if available); (10) Award instrument requested: cost-plus-fixed-fee (CPFF), cost-contract--no fee, cost sharing contract--no fee, or other type of procurement contract (*specify*), grant, cooperative agreement, or other transaction; (11) Place(s) and period(s) of performance; (12) Total proposed cost separated by basic award and option(s) (if any); (13) Name, address, and telephone number of the offeror's cognizant

Defense Contract Management Command (DCMC) administration office (*if known*); (14) Name, address, and telephone number of the offeror's cognizant Defense Contract Audit Agency (DCAA) audit office (*if known*); and (15) Date proposal was prepared.

B. Detailed cost breakdown to include: (1) total program cost broken down by major cost items (direct labor, subcontracts, materials, other direct costs, overhead charges, etc.) and further broken down by year; (2) major program tasks by year; (3) an itemization of major subcontracts and equipment purchases; (4) an itemization of any information technology (IT)\* purchases; (5) a summary of projected funding requirements by month; and (6) the source, nature, and amount of any industry cost-sharing. Where the effort consists of multiple portions which could reasonably be partitioned for purposes of funding, these should be identified as options with separate cost estimates for each.

C. Supporting cost and pricing information in sufficient detail to substantiate the summary cost estimates in B. above. Include a description of the method used to estimate costs and supporting documentation. Note: "cost or pricing data" as defined in FAR Subpart 15.401 shall be required if the offeror is seeking a procurement contract award of \$500,000 or greater unless the offeror requests an exception from the requirement to submit cost or pricing data. "Cost or pricing data" are not required if the offeror proposes an award instrument other than a procurement contract (e.g., a grant, cooperative agreement, or other transaction).

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- IT is defined as "any equipment, or interconnected system(s) or subsystem(s) of equipment, that is used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the agency. (a) For purposes of this definition, equipment is used by an agency if the equipment is used by the agency directly or is used by a contractor under a contract with the agency which – (1) Requires the use of such equipment; or (2) Requires the use, to a significant extent, of such equipment in the performance of a service or the furnishing of a product. (b) The term "information technology" includes computers, ancillary, software, firmware and similar procedures, services (including support services), and related resources. (c) The term "information technology" does not include – (1) Any equipment that is acquired by a contractor incidental to a contract; or (2) Any equipment that contains imbedded information technology that is used as an integral part of the product, but the principal function of which is not the acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information. For example, HVAC (heating, ventilation, and air conditioning) equipment such as thermostats or temperature control devices, and medical equipment where information technology is integral to its operation, are not information technology."

**SECTION II: Reprint of Broad Agency Announcement  
01-07 “Simulation of Bio-Molecular Microsystems  
(SIMBIOSYS)” from the *Commerce Business Daily*,  
Publication Date: October 3, 2000; Issue No.: PSA-2698**

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Defense Advanced Research Projects Agency (DARPA), Contracts Management Office (CMO), 3701 North Fairfax Drive, Arlington, VA 22203-1714.

A – Simulation of Bio-Molecular Microsystems (SIMBIOSYS), SOL BAA 01-07, DUE 011201, POC Dr. Anantha Krishnan, DARPA/MTO, FAX (703) 696-2206.

**PROGRAM OBJECTIVES AND DESCRIPTION**

The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of experimental and theoretical analyses of Bio-Molecular Microsystems. Phenomena of interest include molecular recognition processes, transduction of molecular signals into measurable electrical/optical/mechanical signals, and bio-fluidic transport in microsystems. Synergistic and complementary efforts integrating fundamental experiments and theoretical modeling are sought to enable the characterization, quantification (scaling) and control of the above phenomena. Proposed research should investigate innovative approaches that enable revolutionary improvements in the sensitivity, specificity, speed, efficiency and affordability of sensing and detection mechanisms relevant to DoD applications. One of the important goals of SIMBIOSYS is the development and demonstration of advanced computational modeling and simulation tools consisting of scaling rules and phenomenological relationships for the analysis and design of high performance bio-molecular microsystems.

DARPA seeks innovative proposals in the following areas: (i) Molecular recognition of target bio-molecules in bio-fluidic samples, (ii) Transduction of molecular recognition into measurable electrical/optical/mechanical signals, (iii) On-chip transport of bio-fluidic samples, and (iv) Design tools and methods for lab-on-a-chip (LoC) systems. All development efforts should target enabling capabilities for the sensing and detection of biological and chemical fluids/molecules relevant to DoD requirements and applications. Proposals should demonstrate a close interaction between fundamental experiments and theoretical modeling in order to be responsive to this solicitation. As stated in the Evaluation Criteria below, the offeror’s plan for transitioning the research to DoD and the commercial industry is an important consideration for this BAA.

Additional information on these technology areas is provided in the Areas of Interest section of the BAA 01-07 Proposer Information Pamphlet referenced below.

## **PROGRAM SCOPE**

Long-term program goals include the development, validation and demonstration of enabling computational technologies, and the integration of these technologies into full-scale, high pay-off systems-level design environments. Funded efforts, pursuant to source selection under this BAA, will be undertaken in two phases. Phase I will be dedicated to experimental and theoretical models of molecular recognition and transduction processes and the interfacing of these models with microfluidic system models. Phase II will be dedicated to the benchmark validation of the microfluidic models and the demonstration of design tools on the prototyping of biological/chemical microsystems. Phase II tasks will be funded as options under this program to be decided during FY03. Awards totaling approximately \$25 million are expected to be made during the first half of calendar year 2001. Multiple awards are anticipated. Collaborative efforts/teaming and cost sharing are encouraged. The technical POC for this effort is Dr. Anantha Krishnan, fax: (703) 696-2206, electronic mail: BAA01-07@darpa.mil.

## **GENERAL INFORMATION**

Proposers must obtain a pamphlet entitled "BAA 01-07, Simulation of Bio-Molecular Systems (SIMBIOSYS), Proposer Information Pamphlet" which provides further information on SIMBIOSYS, the submission, evaluation, and funding processes, proposal abstract formats, proposal formats, and other general information. This pamphlet may be obtained from the World Wide Web (WWW) at URL <http://www.darpa.mil/> or by fax, electronic mail, or mail request to the administrative contact address given below.

Proposals not meeting the format described in the pamphlet may not be reviewed. In order to minimize unnecessary effort in proposal preparation and review, proposers are strongly encouraged to submit proposal abstracts in advance of full proposals. An original and seven (7) copies of the proposal abstract must be submitted to DARPA/MTO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 01-07) on or before 4:00 p.m., Eastern Time (ET), Monday, October 30, 2000. Proposal abstracts received after this time and date may not be reviewed. Upon review, DARPA will provide written feedback on the likelihood of a full proposal being selected and the time and date for submission of a full proposal. Proposers not submitting proposal abstracts must submit an original and seven (7) copies of the full proposal to DARPA/MTO, 3701 North Fairfax Drive, Arlington, VA 22203-1714 (Attn.: BAA 01-07) on or before 4:00 p.m., ET, Friday, January 12, 2001, in order to be considered. This notice, in conjunction with the BAA 01-07 Proposer Information Pamphlet, constitutes the total BAA. No additional information is available, nor will a formal RFP or other solicitation regarding this announcement be issued. Requests for the same will be disregarded. The Government reserves the right to select for award all, some, or none of

the proposals received. All responsible sources capable of satisfying the Government's needs may submit a proposal which shall be considered by DARPA. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals; however, no portion of this BAA will be set aside for HBCU and MI participation due to the impracticality of reserving discrete or severable areas of research in this program.

The formation of multi-disciplinary teams consisting of industry, academia, and/or national laboratories with complementary areas of expertise is strongly encouraged. To this end, DARPA invites all interested offerors of whatever size or capacity to provide capability statements to assist with teaming arrangements. An interactive web site has been established at URL <http://sukova.sysplan.com/SimbiosysBAA/> in which these capability statements will be posted. The web site will remain active from the date of issuance of this BAA until January 12, 2001. Specific information content, communications, networking, and team formation are the sole responsibilities of the participants. Neither DARPA nor the DoD endorses the destination web site or the information and organizations contained therein, nor does DARPA or the DoD exercise any responsibility at the destination.

All administrative correspondence and questions on this solicitation, including requests for information on how to submit a proposal abstract or full proposal to this BAA, should be directed to one of the administrative addresses below; e-mail or fax is preferred. DARPA intends to use electronic mail and fax for correspondence regarding BAA 01-07. Proposals and proposal abstracts may not be submitted by fax or e-mail; any so sent will be disregarded. DARPA encourages use of the WWW for retrieving the Proposer Information Pamphlet and any other related information that may subsequently be provided.

## **EVALUATION CRITERIA**

Evaluation of proposal abstracts and full proposals will be accomplished through a technical review of each proposal using the following criteria, which are listed in descending order of relative importance: (1) overall scientific and technical merit, (2) potential contribution and relevance to DARPA mission, (3) plans and capability to accomplish technology transition, (4) offeror's capabilities and related experience, and (5) cost realism. Note: cost realism will only be significant in proposals which have significantly under or over-estimated the cost to complete their effort.

The administrative addresses for this BAA are:

Fax: (703) 351-8685 (Addressed to: DARPA/MTO, BAA 01-07)

Electronic Mail: BAA01-07@darpa.mil

Mail: DARPA/MTO, ATTN: BAA 01-07  
3701 North Fairfax Drive  
Arlington, VA 22203-1714

This announcement, the Proposer Information Pamphlet, and “Frequently Asked Questions” may be retrieved via the WWW at URL <http://www.darpa.mil/> in the solicitations area.

## **SECTION III: Defense Advanced Research Projects Agency/Microsystems Technology Office (DARPA/MTO)**

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The Microsystems Technology Office (MTO) focuses on the heterogeneous microchip-scale integration of electronics, photonics, and microelectromechanical systems (MEMS) to produce a broad array of interface systems; sensors, sources, actuators, and displays; signal processors; and packaging and interconnect systems.

As information technologies continue to become more capable, more compact, and more affordable, they will increasingly pervade forward deployed and mobile military systems. These trends favor juxtaposing machine intelligence with interface systems that sense, source, display, and actuate. Manufacturing and affordability concerns pervade MTO programs. Addition detail can be found on the MTO office home page accessible from the WWW via URL <http://www.darpa.mil>.