

THE JOHNS HOPKINS UNIVERSITY

**APPLIED PHYSICS LABORATORY
PARTNERSHIP FUND 2008**

Description:

Once again this year, the Provost's Office is pleased to announce the APL Partnership Fund.

This fund was established by President Brody to provide seed capital for joint projects in applied research between the Applied Physics Laboratory and other divisions of the University.

In order to plan for a timely and efficient review process, leaders of potential projects should **submit a brief letter of intent no later than Friday, October 12, 2007.**

The letter of intent should be sent via email to Grace Bigelow at graceb@jhu.edu. This ensures that the selection can be completed in a timely fashion and will allow the selected candidates ample time to prepare their full application by Friday, November 9, 2007.

For full program details, below please find a Provost's memo, list of preferred subject areas, and application guidelines.

Office of the Provost


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Kristina M. Johnson
Provost and Senior Vice President
for Academic Affairs

September 20, 2007

MEMORANDUM

TO: Dean Jessica Einhorn
Dean Adam Falk
Dean Ralph Fessler
Dean Martha Hill
Dean Michael Klag
Dean Nicholas Jones
Dean Edward Miller
Dr. Richard Roca
Dean Nancy Roderer
Director Jeffrey Sharkey
Dean Winston Tabb

FROM: Kristina M. Johnson 

SUBJECT: APL Partnership Fund

Once again this year, I am pleased to announce the APL Partnership Fund. This fund was established by President Brody to provide seed capital for joint projects in applied research between the Applied Physics Laboratory and other divisions of the University.

Any academic division that would like to collaborate with the Applied Physics Laboratory through the APL Partnership Fund will be invited to submit a proposal to the APL Partnership Fund Committee. The members of this committee are:

Chi V. Dang, School of Medicine
Marc Donohue, Whiting School of Engineering
Janet DiPietro, Bloomberg School of Public Health
Ed Lattman, Krieger School of Arts & Sciences
John Sommerer, Applied Physics Laboratory
Ted Poehler, Office of the Provost (Chair)

This committee has been charged with the responsibility for administering the program. Proposals will be evaluated and accepted on a competitive basis. Please note: proposals are solicited for projects that suit the missions of APL's sponsors and are likely to attract funding on a continuing basis. Seed capital for successful proposals will be provided on a two-to-one matching basis – i.e., the academic division will provide one-third of the seed funds, and President Brody will provide the other two-thirds of the funding from the APL Partnership Fund.

This year preference will be given to proposals that, in addition to meeting the criteria just mentioned, involve topics in areas of national security and space science that are of particular importance to the mission of APL. Subject areas that meet that description include the following:

Sensors and Sensor Systems	Modeling and Simulation
Communications and Distributed Systems	Vehicle Technology
Information Processing and Management	Space and Environmental Physics
Materials and Structures	System Analysis, Test and Evaluation
Electronic Technology	Biomedical/Biochemical Technology

More detailed information about sub-categories within each of these areas is attached to this memorandum.

Proposals may be submitted for projects with a duration of up to two (2) years. Proposals for continuation of the project after the first year will be considered on a competitive basis. Specific attention will be given to proposed projects with a capability to attract other grants or support.

Total funding for each selected project will range from \$100,000 to \$250,000 including the matching funds. Expenditures should be governed by project needs. The fixed ratio of funds derivation (1/3 divisional - 2/3 APL) should not determine how funds are apportioned among the collaborators. In special cases, the committee will consider proposals of a magnitude outside this range. Inasmuch as the resources for the APL Partnership Fund are university general funds, no facilities and administrative costs will be included by investigators in the academic divisions in estimating the use of those funds in project budgets. The sources of matching funds provided by the division may include funds from other grants, dedicated faculty effort, and support for students expected to contribute to the proposed project. Matching funds from divisional sources may include appropriate expenditures originating no earlier than the date of the award of the APL Partnership Fund grant.

In order to plan for a timely and efficient review process, leaders of potential projects should submit a brief letter of intent no later than October 12, 2007. The letter of intent should include the name of the principal investigator, names of co-investigators, the full title, and a brief narrative (one page) summarizing the project. The notice of intent should be sent via email to Grace Bigelow at graceb@jhu.edu.

The full proposals must be submitted by Friday, November 9, 2007. Attached are the application submission instructions.

The members of the APL Partnership Fund Committee and selected other reviewers with expertise in the specific technology areas will evaluate proposals.

The evaluation criteria for this year will include:

- Suitability to mission of the APL sponsors
- Degree of genuine collaborative efforts
- Caliber of scientific subject and degree of innovation
- Potential for long term funding
- Certification by the division for availability of matching funds
- Certification by appropriate APL department head that resources are available for the APL component of project

Any questions may be addressed to the committee chair, Ted Poehler (top@jhu.edu), or Grace Bigelow (graceb@jhu.edu).

Attachments

**NATIONAL SECURITY AND SPACE SCIENCES
AREAS OF INTEREST**

1. Sensors and Sensor Systems
 - Radar and Lidar Technology
 - Acoustic Sensors
 - Electro-optical Sensors
 - Chemical and Biological Sensors
 - Space Sensing Instruments
 - Other Sensor and Instrument Tech.
2. Communications and Distributed Systems
 - Antenna Technology
 - Distributed Control Technology
 - Communication Link Technology
 - Network Control Technology
 - Interoperability Systems Engineering
 - Other Communications and Distributed Systems
3. Information Processing and Management
 - Decision Support Systems
 - Software Engineering
 - Information Retrieval and Fusion
 - Information Systems Engineering
 - Information Security
 - Other Information Processing and Mgmt.
4. Materials and Structures
 - Composites and Advanced Structures
 - Manufacturing and Fabrication Tech.
 - Nanotechnology
 - Materials and Structures Evaluation
 - Other Materials and Structures
5. Electronics Technology
 - Microelectronics and Advanced Packaging
 - Micro Electric Mechanical Systems (MEMS)
 - RF Electronics
 - Microcontroller Devices
 - Optoelectronics and Photonics
 - Other Electronics Technology
6. Modeling and Simulation
 - Dynamical Simulation
 - Operational Effectiveness Simulation
 - System Performance Modeling and Simulation
 - Distributed System Simulation
 - Environ. Modeling and Simulation
 - Other Modeling and Simulation
7. Vehicle Technology
 - Navigation Technology
 - Guidance and Control
 - Aerodynamics and Hydrodynamics
 - Propulsion and Power
 - Vehicle Systems
 - Other Vehicle Technology
8. Space and Environmental Physics
 - Magnetics, Space Composition and Imaging
 - Electromagnetic Propagation
 - Ocean Physics
 - Environmental Characterization
 - Other Space and Environmental Physics
9. System Analysis, Test and Evaluation
 - Operations Analysis
 - System Architectural Analysis
 - Test Environment and Instrumentation
 - Test Data Acquisition and Evaluation
 - System Performance and Readiness Eval.
 - Other System Analysis, Test and Eval.
10. Biomedical/Biochemical Technology
 - Biomedical Instrumentation
 - Medical Information Systems
 - Bioinformatics
 - Pathogen Identification
 - Chemical/Biological Defense
 - Other Biomedical/Biochemical Tech.

2008	<i>APL PARTNERSHIPS</i>
Purpose	To develop collaborative projects between the Applied Physics Laboratory and the academic divisions of the university
Funds	<ul style="list-style-type: none"> • \$750,000, \$500K of which derives from Partnership funds and \$250K from divisional matching funds. • Individual awards will range between \$100,000 and \$250,000
Deadline	<ul style="list-style-type: none"> • Friday, November 9, 2007 by 5:00 p.m. • Send seven (7) hard copies and an electronic copy of the application to: Grace Bigelow Johns Hopkins University Research Projects Administration 400W Wyman Park Center 3400 N. Charles Street Baltimore, MD 21218-2686 graceb@jhu.edu
Awarded	The earliest possible date for notification of awards is December 15, 2007.
Proposals	<p>Should consist of:</p> <ul style="list-style-type: none"> • title page (<i>template provided</i>) • executive summary limited to one (1) page (<i>template provided</i>) • technical proposal limited to 10 pages • NSF/NIH-type biosketches; i.e., two-page cv's highlighting qualifications-relevant publications, experience, etc. - for scientific project personnel • proposed budget for the duration of the project, which must contain evidence of cost matching (<i>template provided</i>)
Budget	<ul style="list-style-type: none"> • Must use template provided • Expenditures should be governed by project needs. The fixed ratio of funds derivation (1/3 divisional - 2/3 APL) should not determine how funds are apportioned among the collaborators. • Matching funds can come from any legitimate divisional source, including faculty time, student support and other grants. • IDC: <ul style="list-style-type: none"> ○ Partnership monies and other institutional (general) funds carry no IDC; ○ If using grant money and the grant takes IDC, the IDC counts toward the match.
Contact	Grace Bigelow 410-516-5256 graceb@jhu.edu