



National Foundation of Science and Advanced Technologies

26, Azatutyan Avenue
Yerevan, 375014, Republic of Armenia
Tel: (3749) 28 81 92 · Fax: (3749) 28 13 80
E-mail: gmanas@nfsat.am



U.S. Civilian Research and Development Foundation

1530 Wilson Boulevard, Suite 300
Arlington, VA 22209
Tel (703) 526-9720 · Fax (703) 526-9721
E-mail: armenia@crdf.org

**NATIONAL FOUNDATION OF SCIENCE AND ADVANCED TECHNOLOGIES (NFSAT)
AND
U.S. CIVILIAN RESEARCH AND DEVELOPMENT FOUNDATION (CRDF)**

2005 ARMENIAN-U.S. BILATERAL GRANTS PROGRAM

I. Introduction and Summary of Important Features

The National Foundation of Science and Advanced Technologies (NFSAT) and the U.S. Civilian Research and Development Foundation (CRDF) announce the fourth competition for the **2005 Armenian-U.S. Bilateral Grants Program (BGP-IV)**.

The three primary goals of this program are to support high quality, innovative research and development by establishing sustainable U.S.-Armenian research collaborations, to provide an alternative to emigration for Armenian scientists, and to fully employ former weapons research scientists in civilian research.

This merit-based competition provides 18 to 24 months of support to joint research teams of Armenian and U.S. scientists and engineers. Joint proposals may be submitted for cooperation in civilian research and development in all basic and applied sciences (see Appendix 1).

NFSAT and CRDF will give the highest priority to proposals that include former weapons scientists and junior scientists, including undergraduate and graduate students at Armenian universities, scientists who have completed their Ph.D. or *Kandidat* degrees within the last six years, as well as participants at institutes located outside Yerevan.

- All awards will be for collaboration between researchers of Armenia and their counterparts in the United States.
- ***The Armenian Principal Investigator and all Armenian team members must be citizens or permanent residents of the Republic of Armenia who will reside in Armenia during the course of the grant period. The U.S. Principal Investigator must be a U.S. citizen or permanent resident and must reside in the U.S. during the course of the grant period.***
- Applicants may request up to US\$30,000 for an 18-24 month period. At least 80% of total project costs must be designated for the Armenian team and no more than 20% for the U.S. team.
- Applicants must submit original hardcopies of the proposal in English and Armenian (or Russian) and electronic copies of the proposal in English and Armenian (or Russian) to NFSAT **and** an electronic copy in English to CRDF through the CRDF website.
- For explanatory purposes or for the sake of clarification, this Program Announcement may be translated into one or more languages other than English. In the event of the existence of such translations, the English-language version shall serve as the definitive variant in determining the interpretation of any provision of this Announcement.

The deadline for BGP proposals to be submitted to NFSAT and CRDF is 6:00 pm (local time in Armenia and the U.S. respectively) on May 16, 2005. The competition results are expected to be announced on November 1, 2005. All decisions of NFSAT and CRDF are final.

II. Background on NFSAT

The National Foundation of Science and Advanced Technologies (NFSAT) is an independent nonprofit foundation that was established in 1997. NFSAT promotes scientific research and technological development in Armenia through competitive grants, training, and technical resources.

The goals of NFSAT are to:

- ◆ Promote scientific research and technological development in various fields in conformity with international standards, as well as to develop the scientific and engineering potential in the Republic of Armenia;
- ◆ Provide financial and technological support for scientific research and project development in accordance with international standards

Further information on NFSAT may be found on-line at <http://www.nfsat.am>

III. Background on the CRDF

The U.S. Civilian Research and Development Foundation (CRDF) is a nonprofit charitable organization created by the United States Government in 1995 to promote international scientific and technical collaboration. Further information on the CRDF may be found on-line at <http://www.crdf.org>.

All activities funded by the CRDF must be oriented toward civilian objectives and must be carried out in a civilian environment. Support for this program is provided by the U.S. Department of State.

IV. Program Guidelines

- A. General.** The maximum grant size for this competition is US\$30,000 for an 18-24 month period. At least 80% of the funds awarded to each project must be used for project-related expenses of the Armenian component of the research team, including institutional support. No more than 20% may be used for U.S. team expenses. CRDF and NFSAT strongly encourage a member of the Armenian team to visit the U.S. team's laboratory, and a member of the U.S. team is encouraged to visit the Armenian laboratory during the grant period.

Proposals are due no later than 6:00 pm local time on May 16, 2005. All applicants must submit their proposals to both CRDF and NFSAT. Submission details are provided below in Section (IV)(F).

- B. Eligibility.** Each proposal submitted to the Armenian-U.S. Bilateral Grants Program must have **one Armenian Principal Investigator and one U.S. Principal Investigator**, who share overall responsibility for the project in their respective countries, coordinating all participating personnel and institutions. Each proposal must meet all of the following eligibility criteria:

- 1) Each Principal Investigator must:
 - a) Possess the degree of at least Ph.D. or the equivalent;
 - b) Have at least five scientific publications in peer-reviewed scientific literature (three publications if the applicant is within six years of completion of the Ph.D. or the equivalent); and
 - c) Work full-time in a civilian research environment.¹
- 2) The Armenian Principal Investigator and Armenian team members must be citizens or permanent residents of Armenia who will reside in Armenia during the course of the grant period.
- 3) The U.S. Principal Investigator must be a U.S. citizen or permanent resident and must reside in the U.S. during the course of the grant period.
- 4) All projects must be oriented toward civilian, non-military objectives and must be carried out in a civilian research environment.

¹ Researchers at U.S. Government Laboratories who are working on civilian-oriented R&D projects are eligible to apply to this program.

- 5) Projects may include both basic and applied science and engineering activities, including technological development that is part of the innovation process leading to commercial products. Projects may include product and process engineering, but **not** commercial manufacturing or marketing.
 - 6) **No individual may appear as a Principal Investigator in more than one proposal submitted to this program.**
 - 7) Each proposal will be evaluated independently and therefore should not be part of, nor depend on the success of, other proposals submitted to this program.
 - 8) NFSAT and CRDF generally discourage the inclusion of an "administrative superior" of a Principal Investigator's institution in a proposal in any role for which individual financial support is requested. For a definition of "administrative superior" and other details, please see Section (V)(1)(f) below.
 - 9) U.S. or Armenian Principal Investigators who are currently participating on another CRDF or NFSAT award are eligible to apply to this program. If the proposal submitted to this program is granted an award, such participants may receive individual financial support under each of their awards, but must ensure that total time spent on all CRDF or NFSAT funded projects does not exceed 100% of their time, as defined on associated award documents.
 - 10) U.S. or Armenian Principal Investigators who participated on a previous CRDF or NFSAT award that is now closed are eligible to apply to this program. Such participants must be up to date on the submission of all progress reports, including final project reports. CRDF or NFSAT grantees that are delinquent in submitting progress reports may be restricted from participating in this program.
 - 11) CRDF complies with all U.S. laws and regulations pertaining to export control and the participation of foreign nationals or institutions in its activities. It is the policy of CRDF not to conduct any transactions with U.S. restricted entities without appropriate authorization from the U.S. Government.
 - 12) NFSAT complies with all the laws and regulations of the Republic of Armenia.
 - 13) CRDF and NFSAT reserve the right to restrict the participation of any individual or institution in any programs.
 - 14) CRDF and NFSAT comply with all U.S. laws and regulations pertaining to the treatment of human subjects in scientific research and development. Applicants submitting proposals involving human research subjects should refer to Section (IV)(J) of this program announcement.
- C. Special Consideration for Former Weapons Scientists.** CRDF and NFSAT strongly encourage the full-time inclusion of Armenian scientists and engineers formerly engaged in weapons research, including work on weapons of mass destruction, in the civilian research projects funded through this program. NFSAT and CRDF will give special consideration to proposals under this program that include full-time participation of former Armenian weapons scientists or engineers working in civilian research environments. Participants who were formerly engaged in weapons research are required to indicate such experience on Forms A and B of their BGP proposal, according to the Former FSU Weapons Researcher Code List in Appendix 2 of this program announcement.
- D. Guidelines for the Participation of U.S. For-Profit Companies.** Individuals who are representatives of for-profit companies should consult the CRDF Industry Programs before applying to the Armenian-U.S. Bilateral Grants Program. The Industry Programs provide support for cooperative R&D projects that are explicitly designed to facilitate and expedite the commercial utilization of research results. Proposals involving such technology commercialization activities that are more appropriate for the Industry Programs will not be considered by CRDF or NFSAT for the Armenian-U.S. Bilateral Grants Program. For more information about the Industry Programs, please see CRDF's website (<http://www.crdf.org/Industry/industrymain.html>) or contact CRDF staff at: firststeps@crdf.org or nextsteps@crdf.org.

Proposals that involve strictly non-commercial R&D activities **and** include the participation of a U.S. for-profit company are eligible to apply to the Armenian-U.S. Bilateral Grants Program, but the U.S. team may not request any funds from CRDF and NFSAT and the for-profit company must agree to contribute to this project. This contribution must include two components:

- 1) U.S. for-profit company coverage of all U.S. team expenses; and
- 2) A cash or material contribution by the U.S. for-profit company of at least 10% of the expenses of the Armenian team.

Both components of the contribution must be described in the Budget Narrative of the proposal. U.S. for-profit companies are encouraged to contact CRDF for more information about their participation prior to submitting a proposal, in order to ensure compliance with all regulations. A letter of commitment to contribute is required from the U.S. for-profit company upon submission of the proposal. During the CRDF electronic proposal submission, applicants will be asked to verify that these materials have been obtained. Applicants are required to submit these materials as separate documents in addition to the proposal file. Failure to submit this additional information may result in the proposal being declared ineligible.

E. Proposals that involve the paid participation of an Armenian for-profit company are not eligible to apply for the program. According to the Law on Charity currently effective in the Republic of Armenia, NFSAT is not allowed to provide support to for-profit organizations. Non-profit applicants seeking to involve an Armenian for-profit company in their proposal on an uncompensated basis should contact NFSAT for guidance.

F. Proposal Submission Instructions. Applicants must submit proposals to **both** NFSAT and CRDF by **6pm on May 16, 2005**. Any proposal that is not submitted to both organizations in the manner described below may be deemed ineligible.

- 1) **Completed applications must be submitted to NFSAT no later than 6:00 pm Armenian time on May 16, 2005 in the following manner:**
 - **One original hardcopy in English and Armenian (or Russian) and one electronic copy in English and Armenian (or Russian), printed in standard fonts.**

NFSAT will not accept fax submissions. Hardcopy applications submitted to NFSAT must include the original signatures of the Armenian Principal Investigator and the Armenian Institutional Representative on the cover sheet (Form A). NFSAT will confirm receipt of proposals via e-mail messages to the Armenian and U.S. Principal Investigators.

Applications to NFSAT should be sent to:

National Foundation of Science and Advanced Technologies (NFSAT)
26, Azatutyan Ave
Yerevan, Republic of Armenia
Tel: (3749) 28 81 92
Fax: (3749) 28 13 80
E-mail: gmanas@nfsat.am

- 2) **Completed applications must be submitted to CRDF no later than 6:00 pm Eastern Daylight Savings Time on Monday, May 16, 2005 in the following manner:**
 - **One electronic copy in English, which must be submitted through the CRDF website:**

<http://www.crdf.org/ApplicationForms/apps.html>

Proposals may be submitted through this site anytime after April 1, 2005 and before the May 16, 2005 deadline. Proposals should be submitted only **ONE** time and by only **ONE** Principal Investigator on the project. The Armenian and U.S. Principal Investigators should jointly develop the proposal and obtain the concurrence of the authorized Armenian Institutional Representative and the U.S. Institutional Representative. Once the final version of the proposal has been produced, they should select *one Principal Investigator* to submit the proposal electronically through the CRDF website. **Please note that the electronic proposal must be submitted in its entirety at one time.** At the conclusion of the electronic submission process, an automatic confirmation and verification message will be sent immediately to the U.S. and Armenian Principal Investigators, as well as the U.S. and Armenian Institutional Representatives. Further instructions on electronic proposal submission are available at the CRDF website. A hardcopy of the proposal is not required to be submitted to CRDF at any time.

All proposals must be complete when submitted to NFSAT and CRDF. Any proposal not containing all required elements as indicated in Section (IV)(I), may be ruled ineligible. No modifications may be made to any proposal once it has been received by NFSAT and CRDF. However, if circumstances have changed so significantly since the time of proposal submission that the project can no longer be carried out as proposed, the Principal Investigators should notify NFSAT and CRDF accordingly and indicate that they are withdrawing the proposal from the competition.

G. Review of Proposals. All proposals will be screened for eligibility and completeness upon receipt by NFSAT and CRDF. CRDF's role in the review process will be to arrange for expert reviews of the proposals by U.S. reviewers. NFSAT will simultaneously recruit Armenian (and, if necessary, international) experts. CRDF and NFSAT reviewers will use the criteria described in Section (IV)(H), below, to evaluate the proposals and make funding recommendations. On the basis of the results of the peer review and the NFSAT and CRDF priorities identified above, NFSAT and CRDF will jointly select proposals for an award, subject to the availability of funding. NFSAT and CRDF expect to announce proposals selected for award on November 1, 2005. **All joint decisions of NFSAT and CRDF are final.**

H. Evaluation Criteria. Proposals will be reviewed and evaluated by experts appointed by NFSAT and CRDF. The experts will utilize the following criteria in the evaluation of proposals for this program. The first two serve as CRDF/NFSAT's primary and most important criteria, and must be met by all projects; the remaining four serve as supplementary criteria, as appropriate to the nature of each project.

- 1) **Performance Excellence:** the capability of the investigators, the technical soundness of the proposed approach, the adequacy of the technical resources and capabilities available to the project through all participants, and soundness of plans to manage and coordinate the project.
 - 2) **Intrinsic Merit:** the likelihood that the project may lead to new knowledge or novel processes that will have a substantial impact on one or more fields of science and engineering.
 - 3) **Utility:** the likelihood that the results of the project will serve as the basis for new or improved technology, have potential commercial value in the marketplace, or assist in the solution of societal problems, especially in Armenia.
 - 4) **Transition of Weapons Scientists to Civilian Service:** the full-time participation of former weapons scientists in civilian projects carried out in civilian research environments.
 - 5) **Mutuality of Benefit:** the likelihood that the project will result in comparable scientific or technical benefits to Armenia and to the United States and other participants.
 - 6) **Effect on the Infrastructure of Science and Engineering:** potential for improving the broad basis of science and technology, including: education and personnel (e.g., participation of junior scientists and students, including those returning from abroad; university researchers; and women); geographic distribution of R&D personnel and resources; and sharing of equipment among institutions.
- I. Proposal Contents.** Each proposal must include all of the elements listed below. Only applications that include this information will be considered. All proposals should be typed single-spaced with margins of one inch at the sides and on the top and bottom, with all pages, including forms, numbered consecutively in the upper right corner. Proposals should have a font size of not less than 10 points.

**IMPORTANT NOTICE: No proposal may exceed 22 pages in length, including all forms.
Any proposal exceeding 22 pages in length will be disqualified.**

- 1) **Cover Sheet (Form A).** The cover sheet should include basic information about the proposal, Armenian Principal Investigator, Armenian Institution Director, U.S. Principal Investigator, and U.S. Institutional Representative. Most of this information must also be entered during the CRDF electronic proposal submission process.
 - a) The Armenian Institution Director should be an individual other than the Armenian Principal Investigator and ensure all the conditions for the timely and successful implementation of the project.
 - b) The U.S. Institutional Representative should be an individual with the formal, legal authority to commit the U.S. institution to the proposal/contractual arrangement and to negotiate the financial terms of an award agreement with CRDF.
 - c) The U.S. Principal Investigator **cannot** be the U.S. Institutional Representative.
- 2) **Abstract.** In one concise paragraph, summarize all relevant aspects of the project, with special attention to its objectives, methods, and potential results.
- 3) **Project Narrative (6-8 pages maximum including any graphs, diagrams, photos or references cited).** Describe:
 - a) The approach, objectives, milestones, and measurements of success that will be used;
 - b) How the individual and combined competencies of the Armenian and U.S. research team will enable the project to be carried out, and what relevant prior work has been carried out by members of the team (relevant prior CRDF or NFSAT awards must be described, as well as other joint awards, if there were any);
 - c) The anticipated results of the project and how they relate to the CRDF/NFSAT evaluation criteria listed in Section (IV)(H);
 - d) Equipment to be utilized in the project, with special attention to justifying requests for any equipment for which CRDF/NFSAT support is requested;
 - e) How the Armenian and U.S. Principal Investigators will coordinate project implementation and assess progress at regular intervals. Each project must involve significant, substantive cooperation between the U.S. and Armenian teams. All proposed international travel to be funded under the project must be described in terms of its purpose and duration.
 - f) Applicants who are submitting proposals based on a previous CRDF or NFSAT grant must include a clearly labeled, separate section within the project narrative that includes the following:
 - (i) A summary of achievements from the previous or existing CRDF/NFSAT award and how the goals of the renewed grant period will expand on the past results;
 - (ii) Any changes or additions in personnel or secondary collaborators from the previous or existing award;
 - (iii) A description of how equipment purchased in the previous or existing award will benefit the renewed project;
 - (iv) List of publications and relevant conference presentations or other evidence, including additional funding, resulting from the previous or existing award.
- 4) **U.S. and Armenian Principal Investigator Curricula Vitae.** The proposal must contain a *curriculum vita* of **no more than one page** for each of the two Principal Investigators, giving the person's name, title, educational background, current and previous institutional affiliations with dates, area of expertise, and **a list of at least five (5) publications of relevance to the proposed project.**

- 5) **U.S. and Armenian Personnel Data (Form B).** Please complete this form for all U.S. and Armenian team members other than the Principal Investigators. Please copy this page as necessary to complete information about all personnel, including researchers/engineers, technical/scientific support staff, graduate and undergraduate students, administrative/clerical support staff, and secondary collaborators. A short curriculum vitae for each Armenian and U.S. participant other than the Armenian and U.S. Principal Investigators must be included in the respective section of Form B. Each participant's curriculum vitae should be no longer than one-half page and should include brief information on the participant's educational background, current and previous institutional affiliations with dates, area of expertise, and his or her most recent scientific publications of relevance to the project.

IMPORTANT NOTICE: U.S. personnel are not required to offer information regarding their dates of birth.

- 6) **Budget (Form C).** A budget must be submitted using the information provided in Form C of this announcement. Form C must be filled out completely. Applicants should submit one budget Form C for the entire award period. Applicants should refer to the Budget Guidelines in Appendix 3 for information to be listed on the Budget Form C.
- 7) **Budget Narrative.** A separate sheet explaining all budget items must follow the budget forms. This sheet should be clearly marked "Budget Narrative." It is particularly important for all expenses related to travel and the purchase of materials and services to be itemized and justified. Applicants should refer to the "Allowable Costs" in Section (V) and the Budget Guidelines in Appendix 3 for information about what should be described in the Budget Narrative.
- 8) **Statement of Other Support (Form D).** Both Principal Investigators must complete the Statement of Other Support (Form D), listing current and pending sources of support, **excluding** those that are already included under the "Contribution" Section in the budget. This form provides additional helpful information for CRDF reviewers and panel members and does not improve or diminish chances for funding. Applicants with grants from U.S. government sources, such as the National Institutes of Health (NIH) or the National Science Foundation (NSF), should list this support clearly and indicate the grant number and duration of the award. If you have no other sources of support, please indicate "None" at the top of this page. If this proposal has been submitted to another organization, please indicate this information clearly in Form D.

*The following information is **ONLY** required from applicants who are representatives of **U.S. for-profit companies**. This information must be submitted during electronic proposal submission. During electronic proposal submission, applicants will be asked to verify that these materials have been obtained. Applicants will be required to submit these materials as a separate document in addition to the proposal file. **Failure to submit this additional information may result in the proposal being declared ineligible or in substantial processing delays.***

Letter of Contribution Commitment from U.S. For-Profit Company. A letter of commitment to contribute is required from a U.S. for-profit company upon submission of the proposal. The letter of commitment should clearly describe the two components of the U.S. contribution:

- a) U.S. for-profit company coverage of all U.S. team expenses; and
- b) A cash, material, or in-kind contribution by the U.S. for-profit company of 10% of the expenses of the Armenian team.

- J. Guidelines for Proposals Involving Human Subjects Research:** CRDF and NFSAT comply with all U.S. laws and regulations pertaining to the treatment of human subjects in scientific research and development. The CRDF and NFSAT policy on funding proposals involving human subjects research requires both the U.S. Principal Investigator and the Armenian Principal Investigator and their respective institutions to certify that:

They have obtained Institutional Review Board (IRB) or Institutional Ethics Committee (IEC) approval of the research (or a determination that written approval is not required, e.g., exempt research) from an IRB/IEC registered with the U.S. Department of Health and Human Services' Office of Human Research Protections (OHRP);

They have obtained the required approval(s) (or a determination that written approval is not required) from the applicable governmental office(s) for the research, including but not limited to the filing of the required applications related to investigational new drugs or investigational devices;

They have a Federal wide Assurance (FWA) on file with OHRP, and it will comply with the FWA throughout the term of the Project Agreement. The FWA represents a public commitment to comply with the human subjects protections standards of the Belmont Report and the Common Rule;

They will conduct the research in accordance with the National Science Foundation (NSF) regulation entitled, "**Protection of Human Subjects**" [45 CFR § 690 *et seq.*];

If the proposal involves human research subjects, the U.S. Principal Investigator and the Armenian Principal Investigator must both provide the following additional documentation:

- 1) Copies of Institutional Review Board (IRB) or Institutional Ethics Committee (IEC) approval of the project or a formal written determination that said approval is not required, e.g. exempt research. The IRB/IEC must be registered with the U.S. Department of Health and Human Services' Office of Human Research Protections.
- 2) Copies of required approval(s) (or determination that said approval is not required) from the applicable governmental bodies for the research, including but not limited to the filing of required applications related to investigational new drugs or investigational devices.
- 3) Confirmation that the each institution has a Federal wide Assurance (FWA) on file with the U.S. Office for Human Research Protections (<http://www.hhs.gov/ohrp>) and certification that it will comply with the FWA throughout the term of any resulting CRDF award. If an FWA has not been obtained, please so note in the proposal. Please be advised that, in the event the proposal is selected for an award, an FWA must be applied for and received by the Principal Investigators' institutions prior to the issuance of any project agreement by CRDF.

Each proposal involving human subjects research must include a completed IRB Protocol Summary Form (available for download from the CRDF Website at http://www.crdf.org/AwardsAdministration/human_subjects.html and related supporting documentation. These materials, indicating an approval or an exemption of the project to use human subjects, must be submitted during electronic proposal submission along with the proposal materials as described in Section (IV)(I).

During electronic proposal submission, applicants will be asked to verify that these materials have been obtained. Applicants will be required to submit these materials as separate documents in addition to the proposal file. Failure to submit this additional information may result in the proposal being declared ineligible or in substantial processing delays.

Prior to the issuance of any award agreement by NFSAT or CRDF, the Principal Investigators and their institutions must provide certification that all project participants involved in the project have undertaken appropriate training in human subjects protections consistent with the requirements of the regulations cited above.

For more information on CRDF's Policy for clinical trial projects, please see the **General Terms and Conditions of CRDF Funding of Research Involving Human Subjects** at: http://www.crdf.org/AwardsAdministration/Forms%20and%20Guidance/human_subjects_rider.pdf

V. Allowable Costs

NFSAT and CRDF will not consider any proposal requesting more than US\$30,000. In the case of an award, a project budget may be subject to revision by CRDF and NFSAT staff. The following costs are permitted under NFSAT and CRDF guidelines for this program:

1) **Armenian Team Expenses.** Support for the Armenian team's expenses may account for **no less than 80% of the total amount requested from NFSAT and CRDF.** Allowable expenses include:

a) **Individual Financial Support.** Individual Financial Support (IFS) is defined as payments to individual project participants for work performed on the project (i.e., labor costs). CRDF and NFSAT calculate individual financial support based on the level of effort and the professional level of each participant. A month for full-time personnel is considered 22 days, with each day made up of 8 hours of work. Individual financial support may be calculated in a total amount, not exceeding an average of US\$330 per person, per month for those Armenian personnel who will receive support through the project. Maximum IFS for the Principal Investigator should not exceed US\$450 per month and US\$350 for a team investigator.

Typical IFS daily rates for a number of professional levels are shown below. Please consider these rates, as well as geographical, cost-of-living, and other factors, when calculating individual financial support for project personnel.

| Position | Range of Maximum Daily IFS Rates | Maximum Monthly Rate Not to be Exceeded |
|--|----------------------------------|---|
| Principal Investigator/ Project Director | \$15.90-\$20.45 | \$450 |
| Researcher/Engineer/Team Investigator | \$11.36-\$15.90 | \$350 |
| Technical/Scientific Support Staff | \$9.09-\$11.36 | \$250 |
| Student | \$3.41-\$9.09 | \$200 |
| Administrative/Clerical Support Staff | \$3.41-\$9.09 | \$200 |

b) **Materials and Services.** Support for research equipment, including computers and telecommunications devices, subscriptions to scientific journals and telecommunications services, and reagents and other materials to be used in the research. Any item of requested equipment valued at more than US\$1,000 must be specifically described and justified in the Budget Narrative.

c) **Travel.** Travel funds may be used for domestic travel within Armenia, travel to the United States to work with the U.S. partner, and support for travel to international scientific meetings. The purpose and cost of all travel should be justified in the Budget Narrative. The following cost guidelines should be used in preparing the budget:

- (i) **International Transportation.** Lowest-cost applicable round-trip airfare from Armenia. Travel must be on U.S. carriers on all segments for which they are available, and is mandatory on transoceanic flights.
- (ii) **International Living Allowances.** For research visits of two weeks or less, living allowances should follow U.S. government per-diem guidelines. Applicants should refer to a website listing current U.S. Government per-diem rates, such as <http://www.govexec.com/travel> or <http://policyworks.gov/org/main/mt/homepage/mtt/perdiem/perd05d.html>. For research visits of more than two weeks, applicants may request US\$2,000 per month or the prorated equivalent. These allowances cover all costs, including health insurance, which is required. The cumulative international travel time for all members of the Armenian team may not exceed three months per 12-month period of an award, and the maximum single stay abroad for any one individual is two months per 12-month period of an award.

d) **Secondary Collaboration.** For project-related costs to other institutions from the U.S. or Armenia. Secondary collaboration is the delegation of any portion of a CRDF/NFSAT project to a secondary institution other than the institutions of the U.S. and Armenian Principal Investigators. Secondary collaboration may be in the form of sub-contracted work and may include any allowable costs described in this section. All personnel and facilities involved in secondary collaboration must be specifically listed and described in the proposal. The personnel data on Form B must be completed for all secondary collaborators. A separate budget justification must be included for each secondary collaboration in the Budget Narrative.

- e) **Institutional Support.** Armenian grantees must include in their budgets an allowance for institutional costs of up to 10% of the total expenses of the Armenian team. Institutional Support funds are intended to support the institutional costs related to the execution of the project. These costs can include (but are not limited to):
- (i) Expenses for electricity, water, heat, and other utilities.
 - (ii) Expenses for maintenance of Internet connections.
 - (iii) General facility maintenance and repair or improvements (for the areas in which project work is carried out).
 - (iv) Maintenance and repair of equipment used for the project.
 - (v) Subscriptions to electronic and hardcopy scientific journals or online databases for institutional use.
 - (vi) Other appropriate institutional expenses

Institutional Support payments **cannot** be used for the following:

- (i) Payment for institutional expenses not directly or indirectly related to the research project.
- (ii) Purchase of any vehicle.
- (iii) Payment of salary to administrative superiors or other institutional personnel except for an accountant who is responsible for Institutional Support payments and reports.

Institutional Support funds provided by CRDF and NFSAT **cannot** be used to constitute any kind of profit to the recipient institution. If you are uncertain as to whether a specific expense is allowable, please consult CRDF or NFSAT.

- f) **Administrative Superiors.** An "administrative superior" is defined as an individual who has direct administrative authority over the Principal Investigator, and who works within the same division, laboratory, or unit as the Principal Investigator. Institutional leadership including university rectors and vice rectors and institute directors and deputy directors are also defined as administrative superiors. This definition does not apply to other individuals of higher "rank" within the institution but who work outside the division, laboratory or unit of the Principal Investigator. The responsibilities of an administrative superior include ensuring good working conditions for the research team to implement the project successfully and in due time.

CRDF and NFSAT generally discourage the inclusion of an administrative superior in a proposal in any role for which individual financial support is requested. For an administrative superior of the institution to be supported by CRDF and NFSAT, a written justification must be provided in the proposal. Both a detailed description of the anticipated contribution to the project and a justification of the proposed level of effort to be devoted to the CRDF/NFSAT-funded activity by the administrative superior should be included. This written justification will be evaluated in the proposal review process. All projects recommended for funding and that include support for an administrative superior of the institution will be assessed by CRDF and NFSAT as to the reasonableness of the participation of the administrative superior. CRDF and NFSAT may approve or decline to support the administrative superior's participation, or request that the level of effort be modified and certified by the administrative superior. An administrative superior will be required to submit a signed certification confirming his or her commitment to the level of support approved by CRDF and NFSAT.

- 2) **U.S. Team Expenses.** Support for the U.S. team's expenses may account for **no more than 20% of the total amount requested from NFSAT and CRDF.** U.S. teams from university, non-profit, or U.S. government institutions may request funds for the U.S. team. **U.S. teams from for-profit companies may not request any U.S. team expenses.** Such companies are required to cover all U.S. team expenses **and** a cash or material contribution of 10% of the Armenian team expenses. These expenses should be itemized and described in Budget Form C and the Budget Narrative.

For eligible teams, CRDF will distribute support to the U.S. team on a **cost-reimbursable basis**. Allowable expenses include:

- a) **Travel Expenses.** Transportation and per diem support for scientific travel of U.S. project personnel to Armenia in connection with the project may be requested and should be described in the Budget Narrative. All air travel must be at lowest available cost and must be on U.S. carriers wherever service is available, and is mandatory on transoceanic flights. Per Diem must not exceed U.S. Government guidelines, as specified at the website listed above in Section (V)(1)(c).
- b) **Expendable Materials and Supplies.** The budget may include expendable materials and supplies that are necessary to carry out the U.S. team's or laboratory's role in the proposed collaboration. In addition, expenses for telecommunication services, shipping and postage fees, and small pieces of equipment, such as a personal computer, may be requested if they are necessary to carry out the proposed project. The U.S. team is not eligible to request large-scale or capital equipment. The Budget Narrative must include an itemization and justification for each of these expenses.
- c) **Graduate Student Stipend.** The U.S. team may request individual financial support for a graduate student member of the team for the entire award period. The graduate student stipend may include fringe benefits or tuition remission. For graduate students who are not yet identified, but whose participation is planned please clearly indicate their participation and request for support in the Budget Narrative. Applicants should indicate such graduate students on the Budget Form C by writing, "Planned Graduate Student."

CRDF and NFSAT do not provide individual financial support for other members of the U.S. team or for large-scale pieces of equipment for the U.S. team. Institutional support (i.e., overhead) to the U.S. institution is not allowed.

- 3) **Leveraging.** NFSAT and CRDF strongly encourage cash, material, in-kind contributions, and the pooling of funds by participating institutional performers in all activities. A monetary value of all contributions should be clearly indicated in the space provided on the Budget Form C. If funds listed under the contributions line item are to be drawn from proposals currently pending with other funding sources, this should be indicated in the Budget Narrative. In-kind contributions, with the exception of U.S. salary, should be included in the Budget Form C.

VI. Other Information

- 1) **Intellectual Property.** CRDF and NFSAT make no claim to intellectual property rights under any award. The primary interest of CRDF and NFSAT is that intellectual property rights be equitably allocated. Both the U.S. and Armenian parties should be familiar with and abide by the laws regarding intellectual property in their respective countries and by the regulations regarding grants for research projects.
- 2) **CRDF Award Administration Terms and Conditions.** Applicants may refer to the CRDF website for guidance on CRDF policies and procedures relating to the financial and contractual management of CRDF grants, including conflict of interest guidelines. An online library of resources and reference documents may be viewed at the following location: http://www.crdf.org/AwardsAdministration/awards_admin_main.html.
- 3) **Confidentiality.** NFSAT and CRDF treat all proposals as confidential material and require all panelists and reviewers to respect the confidentiality of proposals. However, proposal authors are advised that successful proposals will be treated as being in the public domain. Therefore, at the author's discretion, if there is specific information in the proposal that is business-confidential and not intended for public dissemination, it should be clearly labeled as such at the top and bottom of the applicable page of the proposal. Such passages will be withheld from public distribution if the proposal is successful. Proposals that do not result in awards are not subject to public dissemination by NFSAT or CRDF.
- 4) **Anti-Kickback Policy and Other Special Terms.** Please refer to the following weblinks for more information: http://www.crdf.org/AwardsAdministration/general_award_terms_conditions.html and http://www.crdf.org/AwardsAdministration/anti_kickback_policy.htm

- 5) **Contact Information.** For questions about the proposal submission process, or for further information about this program, please contact the CRDF or NFSAT offices below. ***Inquiries by e-mail are strongly encouraged and will result in prompt response.***

U.S. Civilian Research and Development Foundation (CRDF)
Armenian-U.S. Bilateral Grants Program
1530 Wilson Boulevard, 3rd Floor
Arlington, Virginia 22209
Telephone: 703-526-6762
Fax: 703-526-9721
E-mail: armenia@crdf.org
Program Manager: Ms. Amy Prevatt-Bulat

National Foundation of Science and Advanced Technologies (NFSAT)
26, Azatutyan Ave
Yerevan 375014
Republic of Armenia
Tel: (3749) 28 81 92
Fax:(3749) 28 13 80
E-mail: gmanas@nfsat.am
Program Coordinator: Grigory Manasaryan

Checklist of Documents Required for Proposal Submission:

- #1** Cover Sheet (Form A)
- #2** Project Abstract
- #3** Project Narrative
- #4** U.S. and Armenian Principal Investigator Curriculum Vitae
- #5** U.S. and Armenian Personnel Data (Form B)
- #6** Budget (Form C)
- #7** Budget Narrative
- #8** Statement of Other Support (Form D)
- #9** FOR U.S. FOR-PROFIT COMPANIES ONLY: Letter of Commitment to provide 10% contribution of total Armenian expenses and coverage of all U.S. expenses
- #10** FOR PROPOSALS INVOLVING HUMAN SUBJECTS ONLY: (1) IRB/IEC Approval, (2) Human Subjects Governmental Approval, and (3) Confirmation of FWA

APPENDIX 1
LIST OF GENERAL SCIENTIFIC AREAS AND SUB-DISCIPLINES

| | |
|--|--|
| <p>Biological & Biomedical Sciences & Engineering Agriculture & Agronomy Bacteriology Behavioral Biology Biochemistry Biophysics Biotechnology Botany (Plant Biology) Cardiology Cell Biology Conservation Biology Developmental Biology Entomology Environmental Health Epidemiology Genetics Hematology Immunology Marine Biology Medicine Molecular Biology Molecular Medicine Mycology Neurology Oncology Ophthalmology Physiology Population Biology Radiology Toxicology Microbiology Virology Zoology</p> <p>Chemical Sciences and Engineering Analytical & Surface Chemistry Biochemistry Catalysis Chemical Engineering Inorganic Chemistry Organic Chemistry Physical Chemistry: General Physical Chemistry: Kinetics Physical Chemistry: Physical Organic Physical Chemistry: Reactions/Mechanisms Physical Chemistry: Theory & Dynamics Polymer Chemistry</p> <p>Electrical, Materials, and Manufacturing Sciences and Engineering Aero/Astro Engineering Ceramics Composite Materials Electrical Engineering Electronic Materials Instrumentation Lasers Magnetic Materials Manufacturing Materials Science Mechanical Engineering Metallurgy Nuclear Engineering Optical Material Polymers Power Engineering Superconducting Materials</p> | <p>Geological Sciences and Engineering Atmospheric Science Civil and Mechanical Engineering Environmental Science Geochemistry Geological Engineering Geology Geophysics Hydrology Meteorology Mineralogy Oceanography Paleoclimate Petroleum Geology Radioactivity Remote Sensing Seismology Soil Science Volcanology</p> <p>Mathematical Sciences Abstract Algebra Applied Mathematics (non-physics) Complex Systems & Chaos Computer Science Geometry & Topology Mathematical Logic & Number Theory Mathematical Physics Mathematical Statistics and Probability Modern Analysis Numerical Methods</p> <p>Physical Sciences Acoustics Astronomy/Astrophysics Atomic and Molecular Physics Beams Condensed Matter: General Condensed Matter: Magnetic Properties Condensed Matter: Structure Condensed Matter: Superconductivity Condensed Matter: Theory and Transport Electronics Fluids Holography Hydrodynamics Lasers Mechanics Medical Physics Nonlinear Optics Nuclear Physics Optics and Spectroscopy Particles and Fields Plasma Physics Space Theoretical Physics Quantum Computing and Cryptography Quantum Statistic</p> <p>Other</p> |
|--|--|

**APPENDIX 2
FORMER FSU WEAPONS RESEARCHER CODE LIST**

Former Weapons Researcher – defined as project participants that were engaged in research at a current or former weapons laboratory or institution. Five categories of former defense researchers are provided below (Categories B, C, and D are classified as Weapons of Mass Destruction researchers):

| CATEGORY A: MISSILE TECHNOLOGY EXPERTS | |
|---|---|
| CODE | DESCRIPTION |
| A1 | Design, construction and performance of air, space, surface and underwater - launched missiles. Materials and technologies for these missiles. Production of engines, fuels, composites, integrated elements, radio-electronic equipment, different testing devices for missiles. |
| A2 | Techniques for guidance and control of missiles from launching to impact. Includes optical guidance, television guidance, wire guidance, present and terminal guidance, internal guidance, command guidance, and homing guidance. |
| A3 | Missile handling and launching, including transportation, storage, and preparation for launching. Air, space, surface and underwater launching and support equipment and technologies; Checkout equipment and procedures. Guided missile ranges. |
| A4 | Techniques and systems for tracking missiles as defensive measures. Can be from surface installations or air and space-borne platforms. |
| CATEGORY B: CHEMICAL WEAPONS EXPERTS | |
| B1 | Design and performance of missile warheads and rockets for delivery of chemical weapons. |
| B2 | Materials, facilities and performance processes needed for the production of chemical weapon agents and their key precursors. |
| B3 | Dissemination of chemical weapon agents. |
| B4 | Basic knowledge on CW design and their effect on human system. |
| CATEGORY C: BIOLOGICAL WEAPONS EXPERTS | |
| C1 | Design and performance of missile warheads and rockets for delivery of biological weapons. |
| C2 | Biopolymer production related to biological warhead capabilities. |
| C3 | Dissemination of biological weapon agents. |
| C4 | Basic knowledge on BW design and their effect on human system. |
| CATEGORY D: NUCLEAR WEAPONS EXPERTS | |
| D1 | Basic knowledge of Nuclear Weapons design, construction, characteristics and the effect on human system, |
| D2 | Design, construction and performance of missile warheads for delivery of nuclear weapons. |
| D3 | Design, construction and performance of the equipment and Components for Uranium and Plutonium separation. |
| D4 | Design, construction and performance of the equipment connected with Heavy Water Production. |
| D5 | Design, construction and performance of the equipment for Development of Detonators. |
| D6 | Design, construction and performance of Explosive Substances and Related Equipment. |
| D7 | Design, construction and performance of the equipment and Components for Nuclear Testing. |
| D8 | Design, construction, performance and operation of production-type nuclear reactors for fissile and tritium-content materials production (breeding). |
| D9 | Design, construction, performance of nuclear reactors and units for submarine and for military space program. |
| CATEGORY E: OTHER | |
| E1 | Design, construction, and performance of powerful laser facilities for military applications. |
| E2 | Design, construction and performance of accelerator facilities for military applications in space programs |
| E3 | Others |

APPENDIX 3 BUDGET GUIDELINES

Please use these Budget Guidelines to fill out Form C. For more details and background information, please see Section V: "Allowable Costs".

OVERALL

- No proposal requesting more than US\$30,000 will be considered by CRDF and NFSAT.
- Support for the Armenian team's expenses must account for **no less than 80%** of the total amount requested from NFSAT and CRDF.
- Support for the U.S. team's expenses must account for **no more than 20%** of the total amount requested from NFSAT and CRDF.
- Applicants from U.S. for-profit companies may **not** request any U.S. team support.

INDIVIDUAL FINANCIAL SUPPORT (IFS)

- The U.S. Principal Investigator may request up to US\$6,000 (with the project amount totaling US\$30,000) for the entire award period to support a U.S. participating graduate student, but may not request IFS for any other U.S. team member.
- Armenian team IFS should be calculated using the level of effort and professional level guidelines provided in Section (V)(I)(a) of this program announcement.

MATERIALS AND SERVICES

- The Armenian team's request of all single items costing US\$1,000 or more must be justified in the Budget Narrative.
- The U.S. team is not eligible to request support for large-scale equipment.

TRAVEL

- All U.S. and Armenian personnel must travel on the lowest-cost applicable round-trip airfare.
- All U.S. and Armenian personnel must travel on U.S. carriers on all segments for which they are available, including transoceanic flights.
- Domestic travel expenses for fieldwork and other necessary project-related travel within Armenia are allowed.
- Living allowances for Armenian personnel on research visits within the U.S. for two weeks or less will follow U.S. government per diem guidelines.
- Living allowances for Armenian personnel on research visits within the U.S. for more than two weeks can request US\$2,000 per month or the prorated equivalent.
- The cumulative international travel time for all members of the Armenian team may not exceed three months per 12-month period of an award.
- The maximum single stay abroad for any one Armenian team member with CRDF/NFSAT support is two months per 12-month period of an award.
- Living allowances for U.S. personnel on research visits within Armenia must not exceed U.S. government per diem guidelines.

SECONDARY COLLABORATION

- A separate budget must be included for each secondary collaboration in the Budget Narrative.
- Secondary collaborators must be from any U.S or Armenian institutions other than the institutions of the U.S. and Armenian Principle Investigators.

INSTITUTIONAL SUPPORT

- Institutional Support is not permitted for the U.S. Institution.
- Armenian Institutional Support is calculated at up to 10% of the sum of the other Armenian team expenses

PARTICIPATION OF U.S. FOR-PROFIT COMPANIES

- U.S. for-profit companies are required to cover all U.S. team expenses and should describe these expenses and their amounts in the Budget Form C and in the Budget Narrative.
- U.S. for-profit companies must make a cash or material contribution of 10% of the Armenian team expenses, which should be itemized and described in the Budget Narrative.
- A letter of commitment to contribute is required from the U.S. for-profit company upon submission of the proposal.

FORM A: COVER SHEET

GENERAL PROJECT INFORMATION

| | | | |
|---|--|---|--|
| Total Amount Requested from CRDF/NFSAT (\$30,000 maximum) | | Length of Project (18-24 months) | |
| General Scientific Area (Select from Appendix 1) | | Sub-discipline (Select from Appendix 1) | |
| Brief descriptive title of proposal (not to exceed twenty-five words) | | | |

INFORMATION ON THE ARMENIAN PRINCIPAL INVESTIGATOR

| | | | |
|--|--|------------------------------|-----------------------------|
| Full Name (Last, First, Patronymic) | | | |
| Current Position/Title | | | |
| Institution Name Complete Mailing Address | | | |
| Armenian Principal Investigator E-Mail Address | | Web Page Address | |
| Date of Birth (Month/Day/Year) | | Passport Number | |
| Sex (Male or Female) | | Highest Degree Earned | |
| Field of Degree | | Year Awarded | |
| Telephone # | | Fax # | |
| Armenian Institution Director Name and Title (May NOT be Armenian PI) | | Email Address | |
| Have you received a grant under a previous CRDF or NFSAT program? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| <i>If "Yes," please list program and grant number.</i> | | | |
| Do you have experience in weapons-related subjects? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| If "Yes," please provide the appropriate weapons code from Appendix 2 describing this individual's experience in the area to the right and provide a brief description of the weapons-related experience in the space below. | | | |
| | | | |
| Total Number of Armenia-based investigators on the project, including Armenian Principal Investigator | | | |

INFORMATION ON THE U.S. PRINCIPAL INVESTIGATOR

| | | | |
|---|--|------------------------------|-----------------------------|
| Full Name (Last, First, Middle) | | | |
| Current Position/Title | | | |
| Institution Name Complete Mailing Address | | | |
| U.S. Principal Investigator E-Mail | | Web Page Address | |
| (Must Check One) <input type="checkbox"/> US Permanent Resident <input type="checkbox"/> US Citizen | | | |
| Sex (Male or Female) | | Highest Degree Earned | |
| Field of Degree | | Year Awarded | |
| Telephone # | | Fax # | |
| U.S. Institutional Representative Name & Title | | E-Mail | |
| U.S. Institutional Representative Address | | Phone | Fax |
| Have you received a grant under a previous CRDF program? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| <i>If "Yes," please indicate the program and grant number.</i> | | | |
| Total Number of U.S.-based investigators, including U.S. Principal Investigator | | | |

SIGNATURES- Required only for hardcopies submitted to NFSAT

| | | | |
|--|--|------|--|
| Armenian Principal Investigator Signature | | Date | |
| Armenian Institution Director Signature and Institution Seal | | Date | |

Form B: Personnel Data

(For all members of the **Armenian and U.S. team** other than the *Principal Investigators*. Please copy this page as necessary.)

| | | | |
|--|---|--|--|
| Full Name (Last, First, Patronymic/Middle) | | <input type="checkbox"/> US <input type="checkbox"/> Armenian Participant? | |
| Current Position Institution Name Complete Mailing Address | | | |
| E-Mail Address | | Fax Number | |
| Highest Degree Earned and Year Awarded | | Date of Birth (Armenian only) | |
| Sex (Male or Female) | | Passport Number (Armenian only) | |
| Classification on Project (please check one) | | | |
| Researcher/Engineer <input type="checkbox"/> | Technical/Scientific Support <input type="checkbox"/> | Student <input type="checkbox"/> | Administrative/Clerical Support (Armenian Only) <input type="checkbox"/> |
| Has the individual received a grant under a previous CRDF or NFSAT program? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| If "Yes," please indicate program and grant number. | | | |
| Does the listed individual have experience in weapons-related subjects? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| If "Yes," please provide the appropriate weapons code from Appendix 2 describing this individual's experience in the area to the right and provide a brief description of the weapons-related experience in the space below. | | | |
| Short Curriculum Vita (past employment experience, educational history, and relevant publications): | | | |

| | | | |
|--|---|--|--|
| Full Name (Last, First Patronymic/Middle) | | <input type="checkbox"/> US <input type="checkbox"/> Armenian Participant? | |
| Current Position Institution Name Complete Mailing Address | | | |
| E-Mail Address | | Fax Number | |
| Highest Degree Earned and Year Awarded | | Date of Birth (Armenian only) | |
| Sex (Male or Female) | | Passport Number (Armenian only) | |
| Classification on Project (please check one) | | | |
| Researcher/Engineer <input type="checkbox"/> | Technical/Scientific Support <input type="checkbox"/> | Student <input type="checkbox"/> | Administrative/Clerical Support (Armenian Only) <input type="checkbox"/> |
| Has the individual received a grant under a previous CRDF or NFSAT program? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| If "Yes," please indicate program and grant number. | | | |
| Does the listed individual have experience in weapons-related subjects? | | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| If "Yes," please provide the appropriate weapons code from Appendix 2 describing this individual's experience in the area to the right and provide a brief description of the weapons-related experience in the space below. | | | |
| Short Curriculum Vita (past employment experience, educational history, and relevant publications): | | | |

FORM C: PROJECT BUDGET

Applicants should refer to Section V, "Allowable Costs" in the Program Guidelines as well as Appendix 3 "Budget Guidelines" in order to complete Budget Form C.

Expenses requested from CRDF and NFSAT

| Individual Financial Support | | | | Armenian Team | U.S. Team |
|---|------------|------------------------------------|------------------|---------------|---|
| Name <i>(continue on separate sheet if necessary)</i> | Daily Rate | Number of Days per Month (22 max.) | Number of Months | ----- | <i>Note: Grad Student Stipends Only</i> |
| | | | | | |
| | | | | | |
| TOTAL INDIVIDUAL FINANCIAL SUPPORT | | | | | |
| Materials and Services <i>(Please list. All items over US\$1,000 must be justified in the Budget Narrative. If more space is needed, please list on separate page.)</i> | | | | ----- | <i>Note: Expendable materials & supplies only</i> |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| TOTAL MATERIALS AND SERVICES | | | | | |
| Travel <i>(Please describe in Budget Narrative.)</i> | | | | ----- | ----- |
| Domestic Transportation | | | | | |
| Domestic Per Diem | | | | | |
| International Transportation | | | | | |
| International Living Allowance/Per Diem | | | | | |
| Other Travel Expenses (e.g. visa fees, conference registration fees, etc.) | | | | | |
| TOTAL TRAVEL | | | | | |
| Secondary Collaboration <i>(All secondary collaborating institutions must be identified and secondary collaborators described in detail in the Budget Narrative.)</i> | | | | ----- | Not Applicable |
| Secondary Collaboration: Individual Financial Support | | | | | Not Applicable |
| Name | Daily Rate | # Days per Month (22 max.) | # Months | | Not Applicable |
| | | | | | Not Applicable |
| | | | | | Not Applicable |
| Secondary Collaboration: Materials and Services <i>(Please list. All items over US\$1,000 must be justified in the Budget Narrative. If more space is needed, please list on separate page.)</i> | | | | | Not Applicable |
| 1. | | | | | Not Applicable |
| 2. | | | | | Not Applicable |
| Secondary Collaboration: Travel <i>(Please describe in Budget Narrative.)</i> | | | | | Not Applicable |
| Secondary Collaboration: Institutional Support <i>(10% of all Secondary collaborators' expenses)</i> | | | | | Not Applicable |
| TOTAL SECONDARY COLLABORATION EXPENSES | | | | | Not Applicable |
| Other <i>(Please describe in Budget Narrative.)</i> | | | | | |
| SUBTOTAL | | | | | |
| Institutional Support (exactly 10% of Armenian team subtotal) | | | | | Not Applicable |
| TOTAL REQUESTED FROM CRDF AND NFSAT (Armenian team total = Armenian subtotal + Armenian Institutional Support) | | | | | |
| If Applicable: TOTAL CONTRIBUTIONS FROM OTHER SOURCES <i>(Please describe in Budget Narrative)</i> | | | | | |

FORM D: OTHER SOURCES OF SUPPORT OF KEY PERSONNEL
(For the Armenian and U.S. Principal Investigators. Please copy this page as necessary.)

"None" – Check here if no other sources of support are listed.

| | | | |
|-------------------------------|---|-----------------------|--|
| Investigator Name | | | |
| Support | <input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future | | |
| Project/Proposal Title | | | |
| Source of Support | | | |
| Award Amount | | Period Covered | |
| Location of Research | | | |

| | | | |
|-------------------------------|---|-----------------------|--|
| Investigator Name | | | |
| Support | <input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future | | |
| Project/Proposal Title | | | |
| Source of Support | | | |
| Award Amount | | Period Covered | |
| Location of Research | | | |

| | | | |
|-------------------------------|---|-----------------------|--|
| Investigator Name | | | |
| Support | <input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future | | |
| Project/Proposal Title | | | |
| Source of Support | | | |
| Award Amount | | Period Covered | |
| Location of Research | | | |