



## U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION AND RUSSIAN FOUNDATION FOR BASIC RESEARCH 2009 CGP-RFBR CLIMATE CHANGE AND ENERGY COMPETITION

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### *I. Introduction and Scope*

The U.S. Civilian Research & Development Foundation (CRDF) and the Russian Foundation for Basic Research (RFBR) are currently accepting proposals for the 2009 Cooperative Grants Program (CGP) - RFBR Climate Change and Energy Competition. This competition is open only to joint teams of scientists from the United States and **the Russian Federation**.

Climate change is a global problem that requires multinational solutions. Recognizing the importance of coordinating international research efforts on climate change, CRDF and RFBR will jointly support U.S.-Russian teams engaged in research that addresses the impacts of or solutions to climate change, including energy efficiency and production.

CRDF and RFBR will accept applications from all scientific disciplines as long as the research proposed is basic in nature. Eligible research projects should be submitted to one of the two Focus Areas of this competition: Climate Change Impacts and Climate Change Solutions.

Proposals eligible for Focus Area I: Climate Change Impacts should i) address the impacts of climate change on human and biological systems ii) measure, monitor, and model the processes that will provide accurate future projections of climatic and environmental changes or iii) study regionally specific feedbacks associated with the climate change.<sup>1</sup> Examples of research areas that could be eligible under Focus Area I **include, but are not limited to**, the following:

#### **Focus Area I: Climate Change Impacts**

- Atmospheric composition
- Climate variability and change
- Regional biogeochemical cycles
- In situ and remote observation of environmental changes
- Regional energy and water cycles
- Regional ecosystems (e.g. boreal forests, tundra, Arctic)
- Land use and land cover change
- Effects on human populations (i.e. environmental health)

Proposals eligible for Focus Area II: Climate Change Solutions should address solutions to climate change such as developing technologies in energy, land and water management, and materials science that may mitigate the impact of climate change. Examples of research areas that could be eligible under Focus Area II **include, but are not limited to**, the following:

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<sup>1</sup> Adapted from Northern Eurasia Earth Science Partnership Initiative ([NEESPI](http://www.neespi.org))'s goals, [www.neespi.org](http://www.neespi.org)

## **Focus Area II: Climate Change Solutions**

- Alternative energy (e.g. geothermal, hydro, solar, wind, fuel cells, biofuels)
- Carbon sequestration
- Energy efficiency
- Biological engineering
- Land and water resources engineering
- Reduction of emissions and air pollution
- Hydrocarbon reservoirs and hydrocarbon production and transport

This program provides awards of up to \$93,000 U.S. Dollars (USD) for up to two years of support to joint research teams of U.S. and Russian scientists.

CRDF is a private, nonprofit charitable organization created by the United States Government in 1995 to promote international scientific and technical collaboration. CRDF receives funding for this program from the U.S. Department of State and the National Science Foundation (NSF). More information about CRDF can be found at <http://www.crdf.org>.

RFBR is a state-run non-profit organization existing in the form of a federal agency under the authority of the Government of the Russian Federation created by decree No. 426 of the President of the Russian Federation, dated April 27, 1992, on the initiative of the nation's leading scientists. RFBR is a self-governing state-run non-profit organization whose main mission is to provide support for research work ongoing in all areas of abstract science on a competitive basis, thereby contributing to the building of new relations between the scientific community and the state. Further information on the RFBR can be found at <http://www.rfbr.ru/eng/>.

### **II. Program Guidelines**

**A. General.** The total maximum grant amount is **\$55,000 U.S. Dollars (USD)** from CRDF and **1,200,000 Russian Rubles (RUB)** from RFBR (a combined total of approximately \$93,000 USD) for up to two years of research and development.

**All proposals must be submitted to CGP through an electronic proposal submission site and to RFBR according to RFBR's requirements. Please see Section II. E for more details.**

Proposals will be accepted to the CGP according to the following schedule:

<b>CGP-RFBR Multidisciplinary Climate Change competition Proposal Deadline*</b>	<b>Eligible General Scientific Areas</b>	<b>Notification of Finalists</b>
Tuesday, December 1, 2009 11:59 pm (23:59) Eastern Daylight Savings Time	<b>All proposals MUST be in basic research related to climate change and energy.</b> We will consider proposals from any of the disciplines below: <ul style="list-style-type: none"><li>• Biology</li><li>• Chemistry</li><li>• Geology</li><li>• Mathematics</li><li>• Physics</li><li>• Engineering</li></ul>	Friday, March 26, 2010

**\*Applicants to this joint competition are required to submit ONE proposal to CRDF and ONE proposal to RFBR. DEADLINES AND REQUIREMENTS MAY DIFFER BETWEEN ORGANIZATIONS.**

Please see instructions below for details on eligibility and submission requirements.

**B. Project Scope.** Eligible proposals should address one of the two focus areas of the competition: Climate Change Impacts and Climate Change Solutions. Applicants should clearly indicate which focus area the proposal should be considered under.

CRDF *strongly* encourages applicants to contact a CGP Program Manager at [cgp@crdf.org](mailto:cgp@crdf.org) if they are unsure whether their research topic is eligible for this competition.

**C. CRDF Expectations of Awardees.** Grantees from the CGP-RFBR Climate Change and Energy competition will be expected to:

- Publish research results directly related to the CGP-RFBR grant in a minimum of two (2) international peer-reviewed publications before the submission of the project's final report.
- Maintain and submit to CRDF quarterly timesheets for researchers on the project receiving Individual Financial Support (IFS) from CRDF funding.
- Submit semi-annual progress reports and a final project report.
- Additionally, CRDF encourages grantees to participate and present their CGP-RFBR research at international climate change forums when possible. It is possible to budget for these activities in your application. See Section II.I.1.c.

**D. Eligibility.** Each proposal must meet each of the following eligibility criteria:

1. Each proposal submitted to the CGP-RFBR Climate Change and Energy competition must have **one Russian Principal Investigator** and **one U.S. Principal Investigator**, who share overall responsibility for the project in their respective countries, coordinating all project participants and institutions.
2. Applicants are required to submit a proposal to CRDF and to RFBR. The RFBR call for proposals will be made available in the scientific newspaper "Poisk" and on the RFBR website: <http://www.rfbr.ru>. **Please note that the submission requirements (including deadlines) for proposals to RFBR differ from those of CRDF.**
3. Any proposal submitted to CRDF after December 1, 2009 will not be accepted. Proposals must also be submitted to RFBR by their posted deadline. Submissions that do not adhere to the specific program guidelines for each organization will be declared ineligible.
4. Each Principal Investigator must:
  - a. Possess the degree of Ph.D., M.D., or the equivalent research experience;
  - b. Have at least five (5) scientific publications in peer-reviewed scientific literature (if the applicant has received his or her Ph.D., M.D., or the equivalent in the past six (6) years, three (3) publications are required); and
  - c. Work full-time in a civilian research environment.<sup>2</sup>
5. The Russian Principal Investigator and participants of the Russian team must be citizens or permanent residents of the Russian Federation. All Russian participants must reside in the Russian Federation for the majority of the grant period.
6. The U.S. Principal Investigator and participants on the U.S. team must be U.S. citizens or permanent residents and must reside in the U.S. during the course of the CGP-RFBR project. Graduate students on the U.S. team may be foreign nationals, but they must be enrolled full-time in an accredited degree program at a U.S. institution.
7. All projects must be oriented toward non-military objectives and must be carried out in a civilian research environment.
8. All projects must address problems of basic fundamental research. **Proposals oriented towards applied research will not be accepted.**

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<sup>2</sup> U.S. Government Laboratory employees working on civilian-oriented research and development projects are eligible to apply to this program.

9. Each proposal is evaluated independently and therefore should not be part of, nor depend on the success of other proposals submitted to this program.
10. Russian or U.S. Principal Investigators who have a previous or existing CRDF award, including CGP and CGP-RFBR awards, which are within six (6) months of completion as of the relevant submission deadline, are eligible to apply to this program. Applicants who are previous or current CRDF grantees must be up to date on the submission of all progress reports, including final project reports, to CRDF. Please refer to Section II.N.4 below.
11. Principal Investigators may apply to the CGP-RFBR joint competition for more than one project; however, researchers are not eligible to receive CGP-RFBR funding more than twice (once as a Principal Investigator, once as a participant).
12. CRDF reserves the right to restrict the participation of any individual or institution in its programs. 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.

**E. General Proposal Submission Instructions. All proposals must be submitted to both CRDF and RFBR.** Please submit proposals to RFBR according to RFBR's posted requirements. Proposals submitted to CRDF must be submitted electronically through the Cooperative Grants Program Electronic Proposal Submission (EPS) site at the CRDF website:

<http://proposals.crdf.org/cce>

All submitted proposals must include a Cover Sheet (Form A) with basic information about the proposal, Russian Principal Investigator, Russian Institute Director, U.S. Principal Investigator, and the U.S. Institutional Representative.<sup>3</sup> Each proposal should include all the elements in Section II.H, including information on key project personnel.

**Proposals should be submitted only ONE time and by only ONE Principal Investigator on the project.** The Russian and U.S. Principal Investigators should jointly develop the proposal and obtain the concurrence of the Russian Institute Director and U.S. Institutional Representative. Once the proposal has been finalized, the teams should select the one Principal Investigator to submit the proposal electronically through the CRDF website.

At the conclusion of the electronic submission process, both the Russian and U.S. Principal Investigator will receive a confirmation message from CRDF; a copy of this message will also be sent to the Russian Institute Director and the U.S. Institute Representative identified in the proposal. Further instructions on electronic proposal submission are available at the above website. Please allow 1 hour to enter and upload your proposal.

**Russian Principal Investigators must also submit documentation to the CRDF Moscow Office.**

Russian Principal Investigators should complete the CGP-RFBR Proposal Overview Form available on the CRDF website at [http://www.crdf.org/focusdocs/focusdocs\\_show.htm?doc\\_id=428393](http://www.crdf.org/focusdocs/focusdocs_show.htm?doc_id=428393) and mail this form to the CRDF Moscow office postmarked by December 1, 2009.

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<sup>3</sup> The U.S. Institutional Representative is an individual with the 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.

## Summary Table

Requirements	Specifications	Submission Recipient
<ul style="list-style-type: none"> <li>• CGP-RFBR Climate Change and Energy Competition Proposal Overview Form</li> </ul>	<p>The form must be completed in Russian language. The Russian text must include:</p> <ul style="list-style-type: none"> <li>• Russian Principal Investigator name and institution</li> <li>• Russian Institution Director name</li> <li>• Project Abstract (Section II.H.2.)</li> </ul>	<ul style="list-style-type: none"> <li>• CRDF Moscow Office (listed in Information Section III)</li> <li>• All documentation will be shared with the Ministry of Education and Science and the Federal Agency for Science and Innovation.</li> </ul>

**F. Review of Proposals.** All proposals will be screened for eligibility and completeness upon receipt by CRDF. The proposals will independently be reviewed by CRDF and RFBR. CRDF's scientific merit review process will be performed by expert panels and external reviewers appointed by CRDF. The panels will use the evaluation criteria described below in Section II.G to reach their funding recommendations. CRDF and RFBR will jointly select the projects for funding.

All awards are subject to the availability of funding from RFBR and U.S. Government agencies sponsoring this competition. Historically, the CGP program has been very competitive, averaging a 7-10% success rate. All decisions made by CRDF and RFBR are final.

**G. Evaluation Criteria.** CRDF panels and external reviewers utilize the following criteria in the evaluation of proposals for this program.

1. **Technical Merit:** Whether the project proposes innovative methods and how well the individual elements of the research plan fit with the overall project goals.
2. **Research Plan:** The technical soundness of the proposed work, practicality of the project's management plan, and adequacy of the resources available, both technical and financial.
3. **Research Impact:** The probability that the project will result in new knowledge or have impact on one or more research fields, and the potential that the project processes or results will serve as the basis for new or improved technology.
4. **Personnel Capacity:** The expertise of the investigators and other participants, including the strengths and weaknesses of each partner, as well as the balance of the collaboration and distribution of partnership benefits.
5. **Benefit to Education and Infrastructure:** Appraisal of the project's provision of opportunities for personnel (participation of young scientists, former weapons scientists, university researchers, female scientists), the sharing of equipment and resources among all institutions involved, and the project's long-term positive impact on social, economic, or environmental issues in the countries involved.

Special Consideration will be given to projects that involve former weapons scientists.

**H. Proposal Contents.** All proposals must be written in English. We highly encourage all applicants to review CGP's **Frequently Asked Questions** and **Grant Writing Tips** at [http://www.crdf.org/focusdocs/focusdocs\\_show.htm?doc\\_id=428393](http://www.crdf.org/focusdocs/focusdocs_show.htm?doc_id=428393). These resources include sample forms and examples on how to avoid common mistakes in proposal preparation.

Each proposal must include all of the following elements. Only applications that include this information will be considered eligible and complete for review. All proposals should be typed, single-spaced, in English, with margins of one inch at the sides, top, and bottom, and with pages numbered consecutively in the upper right corner. Proposals should also use Arial font or similar and a font size of no less than 10 points.

Applicants are required to use the electronic template forms (Forms A-D), which are provided by CRDF. These templates can be found at the end of this Program Announcement. Applicants may refer to the **Checklist of Documents Required for Proposal Submission** (located at the end of Section III), to assist in compiling the proposal.

**IMPORTANT:** No proposal may have a font that is **smaller than 10-point Arial. Times New Roman 10-point font is NOT Allowable.**

1. **Cover Sheet (Form A).** The cover sheet includes basic information about the proposal, Russian Principal Investigator, Russian Institution Director, the U.S. Principal Investigator, and the U.S. Institutional Representative. The U.S. Institutional Representative is the individual who would be responsible for negotiating contractual and financial terms in the case of award. This information must also be entered during the electronic proposal submission process.

**IMPORTANT:** CRDF requires that Form A be signed by both the Russian Principal Investigator and Russian Institute Director.

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 (8 pages maximum, including any graphs, diagrams, photos and references cited).** Describe:
  - a. The approach, objectives, milestones, and measurements of success that will be used;
  - b. A clearly defined project timeline, noting all project tasks and goals to be accomplished on a quarterly basis;
  - c. How the individual and combined competencies of the Russian and U.S. research teams will enable the project to be carried out, and what relevant prior work has been carried out by members of the team. Prior CRDF awards must also be described: see Section II.O.3 **Special Note on Requests for Renewed Funding** below;
  - d. The anticipated results of the project and how they address the CRDF evaluation criteria listed in Section II.H;
  - e. How the project compares to current research conducted in the topic area;
  - f. Equipment to be utilized in the project, with special focus on justifying requests for any equipment for which CRDF support is requested;
  - g. How the Russian and U.S. Principal Investigators will coordinate project implementation and assess progress at regular intervals. Each project must involve significant and substantive cooperation between the Russian and U.S. teams. All proposed international travel to be funded under the project must be described in terms of its purpose and duration.
4. **Russian and U.S. Principal Investigator Curricula Vitae.** The proposal must contain a *curriculum vitae* of no more than one page for each Principal Investigator. It should include the individual's name, title, 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. Each Principal Investigator must list at least five (5) publications of relevance.
5. **Russian and U.S. Personnel Data (Form B).** Please fill this form out for each participant on the Russian and U.S. team, including researchers/engineers, technical/scientific support staff, graduate and undergraduate students, administrative/clerical support staff, and secondary collaborators.

**IMPORTANT:** Form B should not exceed **half a page**; two forms should be combined on a single page.

Form B is for additional team personnel only; the Russian and U.S. Principal Investigators do not need to complete Form B with their own information. In the relevant section within Form B, a short curriculum vitae for each Russian and U.S. participant must be included. Each participant's curriculum vitae 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. All information provided in Form B, including the list of publications, must be written in English.

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

6. **Budget (Form C).** A complete budget must be submitted using the Form C template. 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 in the budget.

**Note on Cost-Sharing and In-Kind Contributions:** CRDF encourages cost-sharing under its programs to maximize the resources devoted to projects it supports. Under this CGP competition, CRDF requires cost-sharing from for-profit companies applying to the program. General guidance on cost-sharing and in-kind contributions can be found in **Appendix 2** and on the CRDF website at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=318877](http://www.crdf.org/policies/policies_show.htm?doc_id=318877).

7. **Budget Narrative.** A separate sheet explaining all budget items in detail must follow the Budget (Form C). This sheet should be clearly marked "Budget Narrative." Applicants should refer to the "Allowable Costs" in Section II.J and the "Budget Guidelines" in **Appendix 3** for information that should be described in detail in the Budget Narrative. Requested equipment items with a value of over \$1,000 must be explained 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 for all their research projects, excluding those that are already included under the "**COST-SHARING FROM NON-CRDF SOURCES**" section in the budget. Applicants with grants from U.S. Government sources, such as NIH or NSF, should indicate the grant number, duration of the award and level of effort. If a Principal Investigator has no other sources of support, please check the box marked "None" at the top of Form D and include this page with the proposal. If this proposal has also been submitted to another organization, please indicate this information clearly in Form D.
9. **U.S. Principal Investigator Partnership Statement.** The U.S. Principal Investigator must provide a signed statement on organizational letterhead certifying his or her agreement to the collaboration. A scanned copy of this agreement must be included in the proposal when it is submitted to CRDF. An example of a Partnership Statement can be found in **Appendix 4**. You will be requested to upload it as a separate document during the electronic proposal submission process.

**I. Allowable Costs.** The maximum grant size is \$55,000 from CRDF and 1,200,000 RUB from RFBR (a combined total of approximately \$93,000 USD). Requests over this amount will not be considered. In case of an award, the budget funds requested from CRDF may be subject to revision by CRDF staff.

Please note that no more than 29% (\$16,000) of the funds requested from CRDF may be used for the U.S. team's expenses, including the U.S. Administrative fee, and no more than 71% (\$39,000) of funds requested from CRDF may be used for the Russian team's expenses. All funds requested from RFBR must be used for the Russian team's expenses. These funds will be allocated separately and administered directly to the individuals and institutions involved.

The following costs are permitted for CRDF funding under the guidelines for this program:

1. **Russian Team Expenses.** *Support for the Russian team's expenses must not exceed 71% (\$39,000) of the total amount allowed to be requested from CRDF.* No Russian taxes may be included in any budget proposal submitted to CRDF. Allowable expenses include:

a. **Individual Financial Support.** Individual Financial Support (IFS) is defined as payments made to individual project participants for work performed on the project (i.e., labor costs). CRDF calculates individual financial support based on the level of effort and the professional level of each participant. A month for full-time personnel is considered 20 days, with each day made up of 8 hours of work. The IFS requested in the budget shall be an estimate of the direct level of effort each individual will devote to the project. Actual individual financial support requests for payment will be based on level of effort recorded during a reporting period but may not exceed the monthly maximums for the positions listed below or total budgeted IFS for the award.

The level of effort projected for the Principal Investigator/Project Director and Researchers/Engineers may not exceed 75% of full time over the course of an award. Therefore, for a 2 year award, the budget may not include more than 360 days or 2880 hours of IFS projected for these positions.

The range of allowable IFS hourly 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 Minimum and Maximum IFS Hourly Rates	Maximum Amount Per Person Per Month
Principal Investigator/ Project Director	\$5.00 to \$7.50	\$1200
Researcher/Engineer	\$4.54 to \$6.82	\$1091
Graduate Student	\$2.84 to \$4.26	\$682
Technical/Scientific Support Staff	\$1.75 to \$2.50	\$400
Administrative/Clerical Support Staff	\$1.75 to \$2.00	\$320

b. **Equipment, Supplies and Services.** This includes support for research equipment, including computers and telecommunications devices and/or services, subscriptions to scientific journals, reagents, and other materials to be used in the research. Any requested item of equipment valued at more than \$1,000 must be specifically described and justified in the Budget Narrative.

If the proposal is to include services of professional consultants or service providers such as legal counsel, patent consultants, or other services, these services must be detailed in the Budget Narrative with a justification as to their necessity for successful execution of the project.

c. **Travel.** Transportation and per diem support for travel of Russian personnel in connection with the project should be requested and described in the Budget Narrative. **International travel to collaborating labs is strongly encouraged.** Travel funds may also be used for domestic travel

within the Russian Federation. Limited support is also available for travel to international scientific meetings. The following cost guidelines should be used in preparing the travel portion of the budget:

1. **International Transportation.** CRDF-supported travelers must purchase the lowest-cost applicable round-trip airfare from Russia. Travelers must comply with the provisions of the Fly America Act. For more information, please see: [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=291723](http://www.crdf.org/policies/policies_show.htm?doc_id=291723).
2. **Travel Allowances.** Applicants should refer to CRDF International Travel Allowances when preparing their travel budget. These allowances can be found at: [http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA\\_BA\\_SIC](http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA_BA_SIC) for Russian grantees traveling to the United States, or [http://aoprals.state.gov/content.asp?content\\_id=184&menu\\_id=78](http://aoprals.state.gov/content.asp?content_id=184&menu_id=78) when traveling to other countries. These allowances cover lodging, meals, and incidental expenses. Health insurance is mandatory for all travel under CRDF awards and should be included in the proposal budget in addition to the travel allowance. Visa fees are allowable expenses and may be included in the proposal budget.

The maximum time abroad for any one CRDF-supported traveler is eight months over the course of an award. No single visit may exceed four months. It is also important to provide a justification and a description of the travel plans within the Budget Narrative.

d. **Secondary Collaborators.** Secondary collaborators are institutions other than the Russian or U.S. principal institutions that will participate in the proposed project and receive support under a CRDF award. Secondary collaborators may participate in the form of sub-contracted work and may include any allowable costs described in this section. All secondary collaborator personnel and facilities must be specifically listed and described in the proposal. A separate budget justification for each secondary collaborator must be included in the Budget Narrative.

Secondary collaborators must be citizens and current residents of the Russian Federation. Team(s) of secondary collaborators from institutions other than that of the Russian Principal Investigator must be clearly indicated in the Budget Narrative, describing the institution's technical capability, the budget allocations, and the contact name and information for the secondary collaborator team's leader.

e. **Institutional Support.** The total amount requested for Institutional Support may not exceed 180,000 Russian Rubles (approximately \$5,750.00 USD) from RFBR. Russian applicants may not request any institutional support from CRDF.

f. **Administrative Superiors.** An "Administrative Superior" is defined as an individual who has direct administrative authority over the Project Director/Principal Investigator, and who works within the same division, laboratory, or unit as the Project Director/Principal Investigator. CRDF discourages the inclusion of an administrative superior in a proposal in any role for which individual financial support is requested. For authorization to include an administrative superior in a project, please see CRDF's guidelines at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=311224](http://www.crdf.org/policies/policies_show.htm?doc_id=311224).

2. **U.S. Team Expenses.** *Support for the U.S. team's expenses must not exceed 29% (\$16,000) of the total amount allowed to be requested from CRDF.* U.S. teams from universities, non-profits, or U.S. government institutions may request funds for expenses. U.S. teams from for-profit companies may not request any U.S. team expenses from CRDF. As described in **Appendix 3**, such companies are required to cover all U.S. team expenses and contribute 10% towards the Russian team's expenses by committing cash, materials, or in-kind contributions. These expenses and their amounts should be described in the Budget (Form C) and in the Budget Narrative.

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

a. **Travel Expenses.** Transportation and travel allowances for U.S. personnel traveling to the Russian Federation in connection with the project are permissible expenses and should be

described in the Budget Narrative. All CRDF-supported travel for U.S. personnel must comply with the Fly America Act. For more information, please see: [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=291723](http://www.crdf.org/policies/policies_show.htm?doc_id=291723).

Travel allowances for U.S. travelers to foreign destinations may not exceed the listings found at [http://aoprals.state.gov/content.asp?content\\_id=184&menu\\_id=78](http://aoprals.state.gov/content.asp?content_id=184&menu_id=78).

b. **Supplies and Services.** Supplies and services may be requested up to \$5,000 per year, not to exceed \$10,000 for the entire award period. In addition to supplies and services, support for expendable pieces of equipment may be requested, as long as the depreciated life of the piece of equipment purchased does not exceed the term of the grant.

c. **Graduate Student Stipend.** The U.S. team may request individual financial support for a graduate student member of the team. 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) as "Planned Graduate Student."

***For the U.S. team, CRDF does not provide individual financial support for non-student participants and does not support large-scale equipment purchases.***

d. **U.S. Administrative Fee.** To cover expenses incurred in the administration of the CRDF grant, the U.S. Principal Organization is allowed to request up to 10% of the U.S. team's expenses to cover administrative costs. This amount in conjunction with the U.S. team's expenses cannot exceed the 29% portion of the CRDF funding total that the U.S. is allowed to request.

**J. Intellectual Property.** CRDF makes no claim to intellectual property rights under any award. CRDF's primary interest is that intellectual property rights be equitably allocated. Both the Russian and U.S. parties should be familiar with, and abide by the laws regarding intellectual property in their respective countries, including regulations regarding grants for research projects.

**K. 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/granteeinfo/>.

**L. Conflict of Interest.** CRDF requires that all Project Directors/Principal Investigators and Principal Institutions adhere to the highest ethical standards in all matters related to CRDF awards. CRDF Conflict of Interest Guidelines are further outlined at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=296472](http://www.crdf.org/policies/policies_show.htm?doc_id=296472).

**M. Confidentiality.** CRDF will treat all proposals as confidential material and will require all panelists and reviewers to respect the confidentiality of proposals. However, proposal authors should be aware 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.

CRDF will also share copies of proposals with its counterpart agencies in Russia, upon request of those counterpart agencies. CRDF requires counterpart agencies to follow the same policies above regarding the confidentiality of all proposals.

**N. Proposal Documentation and Special Requirements.** Additional proposal documentation and special certifications may be required for proposals that contain any of the following elements:

- Participation of former weapons scientists;
- Inclusion of human subjects research;
- Cost-sharing and the participation of for-profit companies;
- Requests for renewed funding of a previous or existing CGP award.

1. **Participation of Former Weapons Scientists (FWS).** CRDF strongly encourages the full-time inclusion of Russian scientists and engineers formerly engaged in weapons research, including work on weapons of mass destruction, in the civilian research projects funded through this program. CRDF gives special consideration to proposals under this program that include full-time participation of Russian former weapons scientists or engineers 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 CGP proposal, according to **Appendix 2** or the Weapons Expertise Classifications listed at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=296477](http://www.crdf.org/policies/policies_show.htm?doc_id=296477).

**Requirements for Russian Former Weapons Scientists (FWS).** For proposals including individuals who were formerly engaged in weapons research, the Russian Principal Investigator must receive written authorization as indicated below. CRDF strongly recommends that such applicants contact the appropriate CRDF counterpart agency at least one month prior to the proposal submission deadline.

	Requirements
<b>Applicants with Weapons Experience</b>	<ul style="list-style-type: none"> <li>• The Russian Principal Investigator must receive written authorization from the Russian Institute Director.</li> <li>• Russian applicants must submit this written authorization to CRDF Moscow Office, together with Proposal Overview Form, postmarked by December 1, 2009.</li> <li>• A sample Defense Authorization Letter is available on CRDF's website at <a href="http://www.crdf.org/focusdocs/focusdocs_show.htm?doc_id=428393">http://www.crdf.org/focusdocs/focusdocs_show.htm?doc_id=428393</a>.</li> </ul>

2. **Guidelines for Proposals Involving Human Subjects Research.** All proposals involving human subjects research must adhere to CRDF's policy and guidelines on funding support for such projects. Please refer to the CRDF website at [http://www.crdf.org/terms/terms\\_show.htm?doc\\_id=292607](http://www.crdf.org/terms/terms_show.htm?doc_id=292607).

Each proposal involving human subjects research must include a completed Protocol Summary Form, available for download from the CRDF website at [http://www.crdf.org/granteeforms/granteeforms\\_show.htm?doc\\_id=305885](http://www.crdf.org/granteeforms/granteeforms_show.htm?doc_id=305885), 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 II.H.

3. **Cost-Sharing.** CRDF encourages cost-sharing under its programs to maximize the resources devoted to projects it supports. The CGP requires cost-sharing from for-profit companies applying to the program. General guidance on cost-sharing can be found in **Appendix 3** of this Program Announcement and on the CRDF website at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=318877](http://www.crdf.org/policies/policies_show.htm?doc_id=318877).
4. **Special Note on Requests for Renewed Funding.** CRDF accepts new proposals that are submitted as a continuation of previous and current awards provided that the awardees are up-to-date on semi-annual status and final reports, as well as all other award obligations. All status reports from previous or existing awards will be available to expert reviewers.

Investigators on current awards are only eligible to submit a new proposal if their projects are within six (6) months of completion as of the relevant submission deadline.

Proposals that are continuations of previous awards must be submitted using the standard CGP submission template forms. Applications should include a summary of achievements from the previous or existing award in the project narrative.

### **III. Information**

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

#### **UNITED STATES**

U.S. Civilian Research & Development Foundation (CRDF)  
Cooperative Grant Programs  
1530 Wilson Boulevard, 3<sup>rd</sup> Floor  
Arlington, Virginia 22209  
Telephone: 703-526-9720  
Fax: 703-526-9721  
Email: [cgp@crdf.org](mailto:cgp@crdf.org)  
Senior Program Manager: Mr. Stuart Politi

#### **RUSSIAN FEDERATION**

U.S. Civilian Research & Development Foundation (CRDF)  
Ul. Miklukho-Maklaya 16/10, 206  
Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, RAS  
Moscow 117997, RUSSIAN FEDERATION  
Telephone: 7-495-777-6560  
Fax: 7-495-777-6559  
Email: [info@crdf.ru](mailto:info@crdf.ru)  
Acting Office Director: Vladimir Kurakin

### **CHECKLIST OF ITEMS REQUIRED FOR PROPOSAL SUBMISSION**

#### **REQUIREMENTS FOR ALL SUBMISSIONS**

- Cover Sheet (Form A)
- Project Abstract
- Project Narrative
- U.S. & Russian Principal Investigator Curricula Vitae
- U.S. & Russian Personnel Data (Form B)
- Budget (Form C)
- Budget Narrative
- Statement of Other Support (Form D)
- U.S. Principal Investigator Partnership Statement

#### **SPECIAL REQUIREMENTS**

- Clearance for Former Weapons Scientists
- Proposal Overview Form submitted to CRDF Moscow office
- U.S. For-Profit companies only: Letter of Commitment to contribute 10% of Russian expenses and coverage of all U.S. expenses
- Russian For-Profit companies only: Letter of Commitment to contribute up to 5-10% of total Russian expenses
- Proposals with In-Kind contributions: Letter of Commitment from contributing U.S. and/ or Russian institution
- Proposals involving Human Subjects research: Protocol Summary Form and supporting information, such as Institutional Review Board/Internal Ethical Committee Approval, Human Subjects Governmental Approval, and Confirmation of Federal-Wide Assurance

**APPENDIX 1**  
**LIST OF GENERAL SCIENTIFIC AREAS AND SUB-DISCIPLINES**

**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

**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

**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 Materials

Polymers  
Power Engineering  
Superconducting Materials

**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

**Mathematical and Information 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

**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

**APPENDIX 2**  
**WEAPONS EXPERTISE CLASSIFICATION CODES**

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

<b>CATEGORY A: MISSILE TECHNOLOGY EXPERTS</b>	
<b>CODE</b>	<b>DESCRIPTION</b>
<b>A1</b>	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.
<b>A2</b>	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.
<b>A3</b>	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.
<b>A4</b>	Techniques and systems for tracking missiles as defensive measures. Can be from surface installations or air and space-borne platforms.
<b>CATEGORY B: CHEMICAL WEAPONS EXPERTS</b>	
<b>B1</b>	Design and performance of missile warheads and rockets for delivery of chemical weapons.
<b>B2</b>	Materials, facilities and performance processes needed for the production of chemical weapon agents and their key precursors.
<b>B3</b>	Dissemination of chemical weapon agents.
<b>B4</b>	Basic knowledge on chemical weapons design and their effect on the human system.
<b>CATEGORY C: BIOLOGICAL WEAPONS EXPERTS</b>	
<b>C1</b>	Design and performance of missile warheads and rockets for delivery of biological weapons.
<b>C2</b>	Biopolymer production related to biological warhead capabilities.
<b>C3</b>	Dissemination of biological weapon agents.
<b>C4</b>	Basic knowledge on biological weapons design and their effect on the human system.
<b>CATEGORY D: NUCLEAR WEAPONS EXPERTS</b>	
<b>D1</b>	Basic knowledge of Nuclear Weapons design, construction, characteristics and the effect on the human system.
<b>D2</b>	Design, construction and performance of missile warheads for delivery of nuclear weapons.
<b>D3</b>	Design, construction and performance of the equipment and Components for Uranium and Plutonium separation.
<b>D4</b>	Design, construction and performance of the equipment connected with Heavy Water Production.
<b>D5</b>	Design, construction and performance of the equipment for Development of Detonators.
<b>D6</b>	Design, construction and performance of Explosive Substances and Related Equipment.
<b>D7</b>	Design, construction and performance of the equipment and Components for Nuclear Testing.
<b>D8</b>	Design, construction, performance and operation of production-type nuclear reactors for fissile and tritium-content materials production (breeding).
<b>D9</b>	Design, construction, performance of nuclear reactors and units for submarine and for military space program.
<b>CATEGORY E: OTHER</b>	
<b>E1</b>	Design, construction, and performance of powerful laser facilities for military applications.
<b>E2</b>	Design, construction and performance of accelerator facilities for military applications in space programs.
<b>E3</b>	Others.

**APPENDIX 3**  
**INSTRUCTIONS FOR COST-SHARING AND IN-KIND CONTRIBUTIONS**

**GENERAL GUIDELINES**

1. All cost-sharing must comply with the CRDF Cost-Sharing Guidelines. For complete guidelines and descriptions of cost-sharing types, please see the CRDF website at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=318877](http://www.crdf.org/policies/policies_show.htm?doc_id=318877).
2. CRDF strongly encourages cash and in-kind cost-sharing by participating institutional performers in all its activities.
3. The value of all cost-sharing should be quantified on Budget (Form C) under "Total Cost-Sharing From Non-CRDF Sources," and described in the Budget Narrative of the proposal.
4. All cost-sharing funds listed on the Budget (Form C), both current and pending, must be described fully in the Budget Narrative.

**REQUIREMENTS FOR PARTICIPATION OF FOR-PROFIT COMPANIES**

1. Proposals that involve strictly R&D activities and include the participation of Russian or U.S. for-profit companies are eligible for the CGP-RFBR competition, but the for-profit company must comply with the requirements listed below. For-profit companies can commit cash, material, or pledge in-kind contributions. Direct cash contributions must be administered by CRDF as part of the award to the Russian team. Guidelines for allowable in-kind contributions can be found at [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=318877](http://www.crdf.org/policies/policies_show.htm?doc_id=318877).
2. **U.S. For-Profit Companies are required to:**
  - a. Cover all the U.S. Team expenses. No funds may be requested from CRDF.
  - b. Contribute a minimum of 10% of the total dollar amount requested by the Russian Team.
3. **Russian For-Profit Companies are required to:**
  - a. Contribute up to 5-10% of the total dollar amount requested by the Russian Team.
  - b. Russian For-Profit companies are not required to make contributions to the U.S. Team's expenses.
4. **At the time of submission, for-profit companies are required to provide a letter of support to CRDF that includes:**
  - a. The Signature of an authorized representative of the for-profit company
  - b. A detailed description of the company's contribution in U.S. Dollars

**SPECIAL NOTE ON SALARIES INCLUDED AS COST-SHARING**

Please note that under the following salary items are not considered cost-sharing:

1. Salary for U.S. for-profit company representatives
2. Salary originating from a U.S. Government source

**APPENDIX 4**  
**BUDGET GUIDELINES**

*Please use these Budget Guidelines to fill out Form C (attached). For more details and background information, please see Section II.I: "Allowable Costs" in the Program Guidelines.*

**OVERALL**

- No proposal requesting more than **\$55,000 from CRDF and 1,200,000 RUB from RFBR** will be considered

**INDIVIDUAL FINANCIAL SUPPORT (IFS)**

- No IFS is permitted for U.S. team members other than U.S. graduate students.
- Maximum monthly salary is \$1,200 for the Russian Principal Investigator, \$1,091 or less for other Russian team members.
- The Russian team IFS should be calculated using the level of effort and professional level guidelines provided in Section II.I.1.a. of this Program Announcement.

**ADMINISTRATIVE FEES**

- The U.S. Principal Organization is allowed to request up to 10% of the U.S. team's expenses to cover administrative fees incurred by the university to administer the grant.
- The Russian Principal Organization is allowed to request up to 15% of the total Russian team expenses for Institutional support. This cost may only be requested from RFBR.
- The total amount of Russian institutional support requested from RFBR for the entire award period may not exceed 180,000,000 RUB (\$5,750.00).

**EQUIPMENT, SUPPLIES AND SERVICES**

- All single items costing \$1,000 or more must be justified in the Budget Narrative.
- The U.S. team is limited to a maximum of \$10,000 for expendable materials and supplies.
- The U.S. team is not eligible to request support for large-scale equipment.

**TRAVEL**

- All Russian and U.S. personnel must travel on the lowest-cost applicable round-trip airfare.
- Travelers must comply with the provisions of the Fly America Act. For more information, please see [http://www.crdf.org/policies/policies\\_show.htm?doc\\_id=291723](http://www.crdf.org/policies/policies_show.htm?doc_id=291723)
- Domestic travel expenses for field work and other necessary project-related travel within the Russian are allowed.
- Travel allowances for Russian personnel on research visits within the U.S. must follow the guidelines set forth at [http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA\\_BASIC](http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentId=17943&contentType=GSA_BASIC).
- Travel allowances for U.S. personnel on research visits to Russia must follow the guidelines set forth at [http://aoprals.state.gov/content.asp?content\\_id=184&menu\\_id=78](http://aoprals.state.gov/content.asp?content_id=184&menu_id=78).
- The maximum time abroad for any one CRDF-supported traveler is eight months over the course of an award. No single visit may exceed four months.

**SECONDARY COLLABORATORS**

- A separate budget justification must be included for each secondary collaborator in the Budget Narrative.
- Secondary collaborators from Russian institutions other than that of the Russian Principal Investigator must be indicated clearly in the Budget Narrative. Such secondary collaborators must be described in a half page summary of the Budget Narrative, describing the institution's technical capability, the budget allocations, and the contact name and information of the secondary collaborator's team leader.

**U.S. FOR-PROFIT COMPANY CONTRIBUTIONS**

- U.S. for-profit companies are required to cover all U.S. team expenses and should describe these expenses in U.S. Dollar amounts in the Budget and in the Budget Narrative.
- U.S. for-profit companies are required to contribute a cash, material or in-kind contribution of 10% of the total Russian team expenses. This contribution should be described in the Budget Narrative.

**RUSSIAN FOR-PROFIT COMPANY CONTRIBUTIONS**

- The Russian for-profit company must contribute 5-10% of the total Russian expenses by committing a cash, material, or in-kind contribution and should indicate these expenses in U.S. Dollar amounts in the Budget and Budget Narrative.

**APPENDIX 5**  
**EXAMPLE OF U.S. PRINCIPAL INVESTIGATOR PARTNERSHIP STATEMENT**

[U.S. Institution Letterhead]

[Date]

[U.S. Host Institution Address]

Re: [Full Proposal Title]

Dear CRDF,

I, [U.S. Principal Investigator Name], hereby acknowledge that I have submitted a proposal to the U.S. Civilian Research & Development Foundation's 2009 CGP-RFBR Climate Change and Energy competition jointly with [Russian Principal Investigator Name] of [Russian Institution Name].

If awarded, I undertake this research in good faith and will uphold my portion of the collaborative work as proposed in the submission.

Sincerely,

[USPI Signature]

[USPI Typed Name]

**FORM A: COVER SHEET**

**GENERAL PROJECT INFORMATION**

Total Amount Requested from CRDF (USD)		Projected Length of Project (1-2 years )	
Total Amount Requested from RFBR (RUB and USD equivalent)			
General Scientific Area (select from Appendix 1)		Sub-discipline (select from	
Brief descriptive title of proposal (not to exceed twenty-five words)			
Is this proposal submitted as a continuation of a previous award?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, state previous award number	

**INFORMATION ON THE RUSSIAN PRINCIPAL INVESTIGATOR**

Full Name (Last, First, Patronymic)			
Position/Title			
Institution Name Complete Mailing Address			
Russian Principal Investigator E-mail		Web Page Address	
Date of Birth (MM/DD/YY)		Passport Number	
Sex (Male or Female)		Highest Degree Earned	
Field of Degree		Year Awarded	
Telephone #		Fax #	
Name of Institution Director		E-mail Address	
Have you received a grant under a previous CRDF program or been a participant in a CRDF-funded workshop?	Yes <input type="checkbox"/> No <input type="checkbox"/>		
<i>If "Yes," please list program and grant number or workshop title.</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 <b>Appendix 2</b> describing this individual's experience in the area to the right and provide a <b>brief description</b> of the weapons-related experience in the space below.			
Total Number of Russian-based investigators, including Russian Principal Investigator and graduate students			

**INFORMATION ON THE U.S. PRINCIPAL INVESTIGATOR**

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

**SIGNATURES** *Required for all applicants*

Russian Principal Investigator Signature		Date	
Russian Institute Director Signature		Date	

### Form B: Personnel Data

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

**IMPORTANT: U.S. personnel are not required to offer information regarding their Date of Birth.**

Full Name (Last, First Patronymic/Middle)				<input type="checkbox"/> Russian Participant
				<input type="checkbox"/> U.S. Participant
Current Position Institution Name Complete Mailing Address				
E-mail Address		Fax Number		
Highest Degree and Year Awarded		Passport Number (Russian only)		
Sex (Male or Female)		Date of Birth (MM/DD/YY) Russian Participants 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 (Russian Only) <input type="checkbox"/>	
Have you received a grant under a previous CRDF program or been a participant in a CRDF-funded workshop?			Yes <input type="checkbox"/>	No <input type="checkbox"/>
If "Yes," please list program and grant number or workshop title.				
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 <b>Appendix 2</b> describing this individual's experience in the area to the right and provide a <b>brief description</b> of the weapons-related experience in the space below.				
Short Curriculum Vitae (past employment experience, educational history, and relevant publications):				

Full Name (Last, First Patronymic/Middle)				<input type="checkbox"/> Russian Participant
				<input type="checkbox"/> U.S. Participant
Current Position Institution Name Complete Mailing Address				
E-mail Address		Fax Number		
Highest Degree and Year Awarded		Passport Number (Russian only)		
Sex (Male or Female)		Date of Birth (MM/DD/YY) Russian Participants 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 (Russian Only) <input type="checkbox"/>	
Have you received a grant under a previous CRDF program or been a participant in a CRDF-funded workshop?			Yes <input type="checkbox"/>	No <input type="checkbox"/>
If "Yes," please list program and grant number or workshop title.				
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 <b>Appendix 2</b> describing this individual's experience in the area to the right and provide a <b>brief description</b> of the weapons-related experience in the space below.				
Short Curriculum Vitae (past employment experience, educational history, and relevant publications):				

**Form C: Joint-Competition Project Budget**

Refer to Section (II)(I), "Allowable Costs" in the Program Announcement and within Section 4 of the Addendum

Individual Financial Support				RFBR Russian team only (all amounts must be converted into USD)	CRDF	
Participant Name (Please add rows if necessary)	Hourly Rate	Number of Hours per Day	Number of Days		Russian Team	U.S. Team - Note: Grad Student Stipends Only
1						
2						
3						
<b>TOTAL INDIVIDUAL FINANCIAL SUPPORT</b>						
<b>Equipment, Supplies and Services</b> (Please list. All items over \$1,000 must be justified in the Budget Narrative. Please add rows if necessary.)						Not to exceed \$10,000 for U.S. team
1						
2						
3						
<b>TOTAL EQUIPMENT, SUPPLIES AND SERVICES</b>						
<b>Travel</b> (Please describe in Budget Narrative.)						
Domestic Transportation						
Domestic Per Diem						
International Transportation						
International Living Allowance/Per Diem						
Other Travel Expenses (e.g. visa fees, conference registration fees, etc.)						
<b>TOTAL TRAVEL</b>						
<b>Secondary Collaborators</b>						
<b>Individual Financial Support</b>						
Participant Name	Hourly Rate	# Hours per Day	# Days			
1						
2						
<b>Equipment, Supplies and Services</b> (Please list. All items over \$1,000 must be justified in the Budget Narrative. If more space is needed, please list on separate page.)						
1						
2						
<b>Travel</b> (Please describe in Budget Narrative.)						
Domestic Transportation						
Domestic Per Diem						
International Transportation						
International Living Allowance/Per Diem						
Other Travel Expenses (e.g. visa fees, conference registration fees, etc.)						
<b>TOTAL SECONDARY COLLABORATOR EXPENSES</b>						
Russian Institutional Support (Up to 15% of the total Russian team expenses)						
U.S. Administrative Fees (Up to 10% of the total U.S. team expenses)						
<b>PROJECT SUBTOTAL</b>						
<b>Maximum Subtotals</b>				<b>USD equivalent of 1,200,000 RUB</b>	<b>\$39,000</b>	<b>\$16,000</b>
TOTAL REQUESTED FROM CRDF (U.S. + Russian Expenses)						
TOTAL REQUESTED FROM RFBR (Russian Expenses Only)						
TOTAL COST-SHARING FROM NON-CRDF or NON-RFBR SOURCES (including for-profit contributions - please describe in Budget Narrative)						
<b>TOTAL PROJECT COST (U.S. + RUSSIAN EXPENSES)</b>						

**FORM D: OTHER SOURCES OF SUPPORT OF KEY PERSONNEL**  
*(Required for Principal Investigators. Please copy this page as necessary.)*

**“None” – Check here if no other sources of support are listed.**

<b>Investigator Name</b>			
<b>Support</b>	<input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future		
<b>Project/Proposal Title</b>			
<b>Source of Support</b>		<b>Level of Effort (%)</b>	
<b>Award Amount</b>		<b>Period Covered</b>	
<b>Location of Research</b>			

<b>Investigator Name</b>			
<b>Support</b>	<input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future		
<b>Project/Proposal Title</b>			
<b>Source of Support</b>		<b>Level of Effort (%)</b>	
<b>Award Amount</b>		<b>Period Covered</b>	
<b>Location of Research</b>			

<b>Investigator Name</b>			
<b>Support</b>	<input type="checkbox"/> Current <input type="checkbox"/> Pending Submission Planned in Near Future		
<b>Project/Proposal Title</b>			
<b>Source of Support</b>		<b>Level of Effort (%)</b>	
<b>Award Amount</b>		<b>Period Covered</b>	
<b>Location of Research</b>			