

INTERNATIONAL ARID LANDS CONSORTIUM

Member Institutions

The University of Arizona
Desert Research Institute – Nevada
Higher Council for Science & Technology – Jordan
The University of Illinois
Jewish National Fund
Ministry of Agriculture & Land Reclamation – Egypt
New Mexico State University
South Dakota State University



IALC FY2010 RESEARCH PROJECT: REQUEST FOR PROPOSALS

**The IALC will accept research proposals for FY2010 on the theme:
*Soil and Water Resources Development & Conservation, and May
Include Their Social Dimensions, in Arid and Semiarid Lands***

DEADLINE: 15 April 2010

**FUNDING IS CONTINGENT UPON CONGRESSIONAL APPROVAL
AND RECEIPT OF APPROPRIATIONS**

ANNOUNCED: 8 January 2010

INTERNATIONAL ARID LANDS CONSORTIUM

FY2010 RESEARCH PROJECT:

REQUEST FOR PROPOSALS

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I. INTRODUCTION

The International Arid Lands Consortium (IALC) is an independent nonprofit organization dedicated to exploring the problems and solutions unique to arid and semiarid regions. IALC promotes cooperative research and practical application of new knowledge to develop sustainable ecological practices. The IALC member institutions share a mission to enable people of arid lands to improve the quality of life for future generations.

The 9 IALC Member Institutions are: The University of Arizona; Desert Research Institute, Nevada; the Higher Council for Science & Technology – Jordan; The University of Illinois; the Jewish National Fund; the Ministry of Agriculture and Land Reclamation – Egypt; New Mexico State University; South Dakota State University; and Texas A&M University–Kingsville.

The IALC is an independent legal entity directed by a Board of Directors. The principal scientific advisory body to the Board is the Research and Demonstration Advisory Committee (RADAC). The members of the Board and RADAC are representatives from the Member Institutions. The directives of the board are carried out by a managing director who is appointed by and responsible to the Board.

Research proposals are being solicited by the IALC. This document is only for research proposals. Decisions for granting funds for research are made by the IALC board of directors on the basis of recommendations from the RADAC.

The maximum **TOTAL** funding level for any single research proposal is \$86,000. The duration of research projects can span up to 24 months. Without exception projects must be terminated by the deadline owing to federal funding agreements, fiscal regulations, and final report deadlines.

Semiannual interim reports and annual reports are to be submitted to the granting institution's contracting officer as identified in the contract.

Credit for all aspects of funded research will be given to the IALC. The following credit line should be used:

This research project was supported by funds provided to the International Arid Lands Consortium (IALC) by the USDA National Institute of Food and Agriculture (formerly the USDA Cooperative State Research, Education, and Extension Service). The IALC was established in 1990 as a means to promote research, demonstrations, and training applied to development, management, restoration, and reclamation of arid and semiarid lands in North America, the Middle East, and elsewhere in the world.

II. GENERAL GUIDELINES

A. Research Theme for FY2010

The IALC has supported research projects that lead to management for sustainable forest, woodlands, shrubland, grassland, and agroforestry in arid and semiarid ecological systems. Proposals that emphasize agriculture crop production are outside the scope of this request for proposals. Ecological systems are defined to include humans both as part of biophysical components and socially.

The IALC Board of Directors determines the annual priorities for research project support.

The IALC will accept research proposals for FY2010 on the theme: ***Soil and Water Resources Development & Conservation, and May Include Their Social Dimensions, in Arid and Semiarid Lands.***

Examples of acceptable topics include, but are not limited to:

- Enhancing land stewardship through water reuse
- Mitigation soil erosion
- Socioeconomics of enhancing water supply
- Effects of possible climate change on water resources
- Effects of indigenous pastoral practices on water and soil sustainability

Topics primarily related to agricultural production are not acceptable.

The IALC hopes to allocate approximately \$258,000 for research projects. Funding success has ranged from 11% to 56% based on the number and amount of proposals and funds received annually.

If you have any questions about the acceptability of your proposed research project, please contact the IALC office.

Descriptions of previously-funded research projects can be obtained from the RADAC representative at your institution and/or the chair of RADAC. In addition, the researcher may access other IALC information at <http://ialcworld.org> on the Internet.

B. Appropriateness of the Proposed Research

Prior to submission of a research proposal, the principal investigator is strongly encouraged to consult with the RADAC member at the principal investigator's institution or the RADAC chair and ascertain the appropriateness of the subject matter.

In addition, the investigator may access other IALC information at <http://ialcworld.org> on the Internet.

C. Conditions for Consideration

A research proposal **MUST** meet the following conditions to be considered for funding:

1. Develops new knowledge and technology suitable for publication in a peer-reviewed journal;
2. Uses the scientific method; and
3. Addresses the theme for this year.

D. Institutions Eligible to Submit Proposals

Institutions eligible to submit proposals are: The University of Arizona; Desert Research Institute, Nevada; the Higher Council for Science & Technology – Jordan; The University of Illinois; the Jewish National Fund; New Mexico State University; South Dakota State University; and Texas A&M University–Kingsville. All research institutes and universities in Israel and Jordan are eligible if approved by the Jewish National Fund and the Higher Council for Science & Technology, respectively. The primary accountability for project execution must be assignable to the eligible institution.

Note: IALC Board and RADAC members are not eligible to be investigators on proposals.

E. Contractual Agents, Eligible Institutions, and Investigators

Funds awarded to U.S. Member Institutions will be disbursed to the eligible institution which will be accountable for administering the grant. The principal investigator(s) must be employed by one of the eligible institutions. Other investigators may reside at any other institutions.

F. Collaborative Research

Collaborative research that involve active cooperation between scientists from two or more IALC eligible institutions are highly recommended. Proposals that originate from an Israeli or Jordanian institution of higher education and have U.S. collaborators, **MUST** have at least one investigator from an IALC “Member Institution” in the United States. In addition collaboration that strengthens the technical quality of the proposal is desirable with researchers from other institutions.

Examples of collaboration include the following:

1. joint research activities where interdependent projects of a single research program are conducted in different locations and involve different courses of funding;
2. provision of research facilities, materials, equipment, and/or services to cooperating scientists;
3. joint planning and conduct of research, development, and evaluation of results; and/or
4. exchange of personnel.

In the case of collaborative research, a principal investigator from an eligible institution and determined by mutual agreement among investigators will be responsible for submitting the research proposal, for preparation and submission of research reports, and for administration of the research project.

Upon request, the IALC will try to provide names of investigators who may be interested in collaborating on a specific proposal. Adequate lead-time should be provided.

G. Criteria for Evaluation of Proposals

Applicability of the research to the previously listed theme of research supported by the IALC will be evaluated. The relationship of recognition to an arid lands management problem should be clear. Priority will be given to projects conducted in the geographic areas of the IALC Member Institutions. Those proposals not deemed applicable will be returned.

Proposals will be judged on the following criteria.

1. Scientific Merit. Up to 40%
 - a. merit of science;
 - b. innovative approach;
 - c. logic of work plan and experimental design;
 - d. integration of disciplinary sciences; and
 - e. demonstration that a hypothesis will be adequately tested.

2. Explanation of why and how this proposal addresses the main theme and discussion of potential benefit to sustainable management. Up to 15%

3. Personnel, Institutional Support, and Management. Up to 25%
 - a. qualification of researchers;
 - b. institutional support;
 - c. appropriateness of timetable and budget; and
 - d. disciplines needed for success.

4. IALC Member Institutional Collaboration. Up to 20%
 - a. Up to 20% Any combination among U.S. or Israel or Jordan; and
 - b. Up to 10% 2 or more different institutions within a country (e.g. U.S./U.S., Israel/Israel, or Jordan/Jordan).

H. Work Plan, Schedule, and Expected Results

The work plan and schedule for the required reports of all funded research will be as follows:

1. TBD Work Plan (upon acceptance of project by Principal Investigator)
2. Jan 1 1st Progress Report
3. Jul 1 2nd Progress Report
4. Jan 1 3rd Progress Report
5. Jul 1 4th Progress Report
6. Et cetera for duration of the study

The final report is due within thirty (30) days following the end date of the funded project.

I. Submission of Proposals

No changes or additions to the proposal will be accepted after the deadline for submission.

Only proposals with all 12 copies that reach one of the IALC offices listed on pages 7 and 8 by (the deadline indicated on the front page) will be considered. Notification of award will be made during late June 2010.

Investigators are required to ensure that their proposals are complete and in strict conformance to the specified format.

The principal investigator must submit twelve (12) copies of the research project proposal. The cover page of the proposal must be signed by each investigator and by the appropriate eligible institutional research authority. Separate copies of the cover page can be submitted from collaborating institutions. Faxed cover sheets, including signature, are acceptable, if necessary.

Proposals from U.S. Member Institutions should be sent directly to the IALC main office in the U.S., while proposals from Israeli institutions should be sent to the Israeli address, and proposals from Jordanian institutions should be sent to the Jordanian address.

The IALC mailing addresses are:

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III. CONTENT AND FORMAT REQUIREMENTS OF THE PROPOSAL

**A Proposal Will be Disqualified and Not Reviewed
If It Does Not Conform to the Following Content and Format Requirements**

A. General Considerations

The proposal, including curriculum vitae, **MUST BE** printed in English with a font no smaller than 11-point type. It may be typed on letter size paper (8.5" X 11") or on A4 size paper (210 mm X 297 mm). It may be single-spaced. Each copy of the proposal must be single-sided and legible.

B. Format of the Proposal

All pages must be numbered sequentially (i.e., 1, 2, 3,..., etc).

When provided, the indicated forms **MUST BE** used, for consistency and evaluation purposes.

The research proposal **MUST INCLUDE** the following in this order:

1. Cover Page

Use the ***IALC Research Project Proposal Cover Pages*** form on Attachment 1.

2. Abstract/Executive Summary [*One (1) page maximum*]

The summary of the proposed research **MUST INCLUDE**:

- a. the title of the proposal (not to exceed 65 characters);
- b. definition of the research problem;
- c. specific objectives of the research;
- d. expected contribution to this year's theme;
- e. methodology; and
- f. keywords - up to three words that pertain to the subject matter of the proposal that are not included in the title.

3. Proposed Research [*Ten (10) pages maximum, excluding literature cited*]

The description of the proposed research **MUST INCLUDE** the following:

- a. introduction that **MUST INCLUDE**:
 - (1) description of the problem;
 - (2) relationship of research to the theme; and
 - (3) expected benefits;

- b. objectives;
 - c. literature review;
 - d. description of the research plan is critical, and it **MUST BE** clear, concise, comprehensive, and must include:
 - (1) methodology;
 - (2) experimental design;
 - (3) description of responsibility of each collaborator;
 - (4) schedule of work (project timetable);
 - e. description of investigators' institutional support;
 - f. description of support from other sources; and
 - g. literature cited.
4. Provide a list of anticipated titles and peer-reviewed journal outlets expected from results of this study.
5. Current Funded Research

List all current research projects of principal investigators and other investigators in the following format, one project at a time: 1) title; 2) funding institution; 3) inclusive dates of funded research; and 4) fiscal contribution in U.S. dollars. Also describe the relationship between the proposed research and other current funded research conducted by the investigators.

A researcher currently receiving IALC funds must indicate the status of all his/her IALC funded project(s). A proposal requesting funds to expand a previously-funded IALC project must provide evidence that prior work has been thoroughly summarized in a form suitable for submission for peer review.

Use the ***Current Funded Research Projects*** form on Attachment 2.

6. Budget Details

No more than 25% of the total funds may go to non-IALC Member Institutions.

The budget in U.S. dollars must be presented using cost estimates prevailing at the time of preparation and anticipated price increases for all subsequent years. The budget must be specified for each year of the research and for the overall grant period, and listed separately for each institution. The following items should be included in the budget. Use the ***IALC Research Project Budget Details*** forms on Attachment 3.

a. Indirect Costs

No indirect costs are allowed under subcontracts issued by the IALC.

b. Direct Costs

(1) Personnel Services. Investigators and support personnel can receive IALC salary and fringe benefits commensurate with time devoted to the research projects.

(2) Non-Expendable Equipment. The IALC supports research conducted in properly equipped laboratories or in the field. The IALC may consider allowing the purchase of unique specific items of equipment to be used without which the research could not be conducted.

Title to the equipment purchased under IALC sponsored agreements remains with the IALC. Upon termination of the agreement for which equipment is purchased, the IALC may transfer title of the equipment to an eligible party or remove and use it according to its own discretion.

(3) Operating Expenses. These include such items as supplies, materials, and temporary wages.

(4) Foreign Travel. This includes domestic/local and foreign travel. The IALC may allocate money for foreign travel when such travel is justified as being essential to the execution of the research project. The applicant must indicate for whom the travel is intended. Travel per diem will be allowed in accordance with the terms prevailing in the investigator's institution.

(5) Contractual Services. Funds can be used for contractual services.

7. Budget Justification [**Required to receive funds. Two (2) pages maximum.**]

The institution of the principal investigator is designated as "Institution 1" and receives all the funds from IALC. All other institutions are to be issued a subcontract by Institution 1.

Each institution receiving funds must be listed separately with its own budget and justification (i.e., institution 1, then institution 2, and so forth).

Investigators are required to justify in detail all major items including personnel services, foreign travel, and non-expendable equipment for which funding is requested.

a. Personnel Services. List the full-time equivalents (FTEs) for each position and budget per FTE. Indicate salary and fringe benefits separately when applicable. Also list names and titles of personnel if known.

b. Non-Expendable Equipment. List the name and cost of each piece of equipment over \$400.00 per unit.

c. Operating Expenses. Brief description.

d. Travel:

(1) Domestic/Local. Destination, date, cost, and name of travelers, when known.

(2) Foreign. Destination, date, cost, and name of travelers **are required**.

e. Contractual Services.

- (1) Each subcontractor must be identified. A statement of work and justification **must be provided** for each subcontractor.
- (2) If consultants are requested, a curriculum vitae and a brief statement of work **must be provided** for each consultant.

8. Curriculum Vitae and List of Relevant Publications

[Two (2) pages maximum for each person]

Curriculum vitae of these investigators must include a brief professional biography stating academic background and a brief list of publications relevant to the proposed research.

IV. IALC RESEARCH AND DEMONSTRATION ADVISORY COMMITTEE

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IALC RESEARCH PROJECT PROPOSAL COVER PAGES

| | |
|---|---|
| TITLE: (Maximum of 65 Characters, Including Spaces) | |
| IALC FUNDS REQUESTED: \$ [in U.S. Dollars] Maximum Total is \$86,000 | PROJECT DURATION: [in months] Maximum Duration is 24 months. |
| Name & Signature of Each Investigator AND Name & Signature of Each Institutional Authority AND Israel or Jordan RADAC Member (when applicable) | |
| Name of Principal Investigator #1 (required) | REQUIRED: A Listing of the Each Person's Complete Title, Name of Institution, Address, Telephone, Fax Number, and Email address. |
| Signature of Principal Investigator #1 (required) | |
| Name of Investigator #2 (when applicable) | |
| Signature of Investigator #2 (required if listed) | |
| Name of Institutional Authority of Principal Investigator #1 (required) | |
| Signature of Institutional Authority of Principal Investigator #1 (required) | |
| Name of Institutional Authority of Investigator #2 (when applicable) | |
| Signature of Institutional Authority of Investigator #2 (required if listed) | |

| |
|--|
| Expansion of a previously-funded IALC project? Yes <input type="checkbox"/> No <input type="checkbox"/> If Yes, IALC Project No: _____ |
| If yes, what is the title of the existing IALC project and its funding level? |

IALC RESEARCH PROJECT PROPOSAL COVER PAGES

| | |
|---|---|
| TITLE: (Maximum of 65 Characters, Including Spaces) | |
| Name & Signature of Each Investigator AND Name & Signature of Each Institutional Authority AND Israel or Jordan RADAC Member (when applicable) | REQUIRED: A Listing of the Each Person's Complete Title, Name of Institution, Address, Telephone, Fax Number, and Email address. |
| Name of Investigator #3 (when applicable) | |
| Signature of Investigator #3 (required if listed) | |
| Name of Investigator #4 (when applicable) | |
| Signature of Investigator #4 (required if listed) | |
| Name of Institutional Authority of Investigator #3 (when applicable) | |
| Signature of Institutional Authority of Investigator #3 (required if listed) | |
| Name of Institutional Authority of Investigator #4 (when applicable) | |
| Signature of Institutional Authority of Investigator #4 (required if listed) | |

| | |
|---|----------------------|
| Name of Israel or Jordan RADAC Member (required when applicable) | Leave This Box Blank |
| Signature of Israel or Jordan RADAC Member (required when applicable) | |

CURRENT FUNDED RESEARCH PROJECTS
[Reproduce this page if necessary]

| | |
|---|--|
| Title: | |
| Investigator's Name: | |
| Funding Institution: | |
| Fiscal Contribution (in U.S. Dollars): \$ | Inclusive Dates of Funded Research: |
| Details of This Funded Research: [provide a description of the relationship between this research and the proposed IALC research] | |

| | |
|---|--|
| Title: | |
| Investigator's Name: | |
| Funding Institution: | |
| Fiscal Contribution (in U.S. Dollars): \$ | Inclusive Dates of Funded Research: |
| Details of This Funded Research: [provide a description of the relationship between this research and the proposed IALC research] | |

IALC RESEARCH PROJECT BUDGET DETAILS
(In US Dollars)

| BUDGET CATEGORY | YEAR 1 ONLY – MONTHS 1 - 12 | | | | |
|------------------------------------|-----------------------------|---------------|---------------|---------------|--------------|
| | Institution 1 | Institution 2 | Institution 3 | Institution 4 | YEAR 1 TOTAL |
| A. IALC FUNDS REQUESTED | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| IALC FUNDS REQUESTED | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| B. COOPERATOR CONTRIBUTIONS <i>[Non-IALC Funds - Direct Costs Only]</i> | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| COOPERATOR CONTRIBUTIONS | | | | | |

| | |
|---|--|
| NAME & ADDRESS OF INSTITUTION 1 Receives all IALC funds and issues subcontracts to all other institutions | |
| NAME & ADDRESS OF INSTITUTION 2 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 3 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 4 subcontracted from Institution 1 | |

IALC RESEARCH PROJECT BUDGET DETAILS
(In US Dollars)

| BUDGET CATEGORY | YEAR 2 ONLY – MONTHS 13 - 24 | | | | |
|------------------------------------|------------------------------|---------------|---------------|---------------|--------------|
| | Institution 1 | Institution 2 | Institution 3 | Institution 4 | YEAR 2 TOTAL |
| A. IALC FUNDS REQUESTED | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| IALC FUNDS REQUESTED | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| B. COOPERATOR CONTRIBUTIONS <i>[Non-IALC Funds - Direct Costs Only]</i> | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| COOPERATOR CONTRIBUTIONS | | | | | |

| | |
|---|--|
| NAME & ADDRESS OF INSTITUTION 1 Receives all IALC funds and issues subcontracts to all other institutions | |
| NAME & ADDRESS OF INSTITUTION 2 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 3 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 4 subcontracted from Institution 1 | |

IALC RESEARCH PROJECT BUDGET DETAILS
(In US Dollars)

| BUDGET CATEGORY | GRAND TOTAL FOR ALL YEARS | | | | |
|------------------------------------|---------------------------|---------------|---------------|---------------|-----------------|
| | Institution 1 | Institution 2 | Institution 3 | Institution 4 | ALL YEARS TOTAL |
| A. IALC FUNDS REQUESTED | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| IALC FUNDS REQUESTED | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| B. COOPERATOR CONTRIBUTIONS <i>[Non-IALC Funds - Direct Costs Only]</i> | | | | | |
| 1. Personnel Services: a. Salaries | | | | | |
| b. Fringe Benefits | | | | | |
| 2. Non-Expendable Equipment | | | | | |
| 3. Operating Expenses | | | | | |
| 4. Travel: a. Domestic/Local | | | | | |
| b. Foreign | | | | | |
| 5. Contractual Services | | | | | |
| COOPERATOR CONTRIBUTIONS | | | | | |

| | |
|---|--|
| NAME & ADDRESS OF INSTITUTION 1 Receives all IALC funds and issues subcontracts to all other institutions | |
| NAME & ADDRESS OF INSTITUTION 2 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 3 subcontracted from Institution 1 | |
| NAME & ADDRESS OF INSTITUTION 4 subcontracted from Institution 1 | |