Introduction to CSREES Integrated Competitive Programs

Integrated Programs

Grantsmanship Workshop

C S R E E S

C o o p e r a t i v e

S t a t e

R e s e a r c h

E d u c a t i o n

E x t e n s i o n

S e r v i c e

CSREES
INTEGRATED
PROGRAMS

OUR MISSION

To advance knowledge for agriculture, the environment, human health and well-being, and communities.

CSREES INTEGRATED PROGRAMS

CSREES
Portfolio of Funding Mechanisms

Formula Funding

Congressional Line Items

Competitive Programs

CSREES INTEGRATED PROGRAMS

Integrated Research, Education, and Extension

Integrated

Research

Education

Extension

To bring the three components of the agricultural knowledge system (**research, education, and extension**) around a problem area or issue

CSREES INTEGRATED PROGRAMS

Integrated Research, Education, and Extension

What does optimal integration look like?

Research, extension, and education components complement one another and are truly necessary for the ultimate success of the project

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Integrated Research, Education, and Extension

Research: What are the knowledge gaps?

Research should fill knowledge gaps that are critical to the development of practices and programs that will address the problem

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Integrated Research, Education, and Extension

Education: How will the next generation be trained?

Education should strengthen institutional capacity and curricula and train the next generation of scientists, educators, practitioners, and citizens

CSREES INTEGRATED PROGRAMS

Integrated Research, Education, and Extension

Extension: How will information be delivered to help the target audience make more informed decisions?

Extension should lead to measurable documented changes in learning, actions, or conditions in an identified audience or stakeholder group

CSREES INTEGRATED PROGRAMS

Integrated Research, Education, and Extension

Integrated Project Characteristics

Stakeholder Driven

Problem Focused

Outcome Oriented

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Potential Outcomes/Impacts

Short-Term	Medium	Long-Term
Learning	*Action*	*Conditions*
Awareness	Behavior	Human
Knowledge	Practices	Economic
Skills	Decisions	Civic
Opinions	Policies	Environmental
Aspirations	Social Action	

CSREES INTEGRATED PROGRAMS

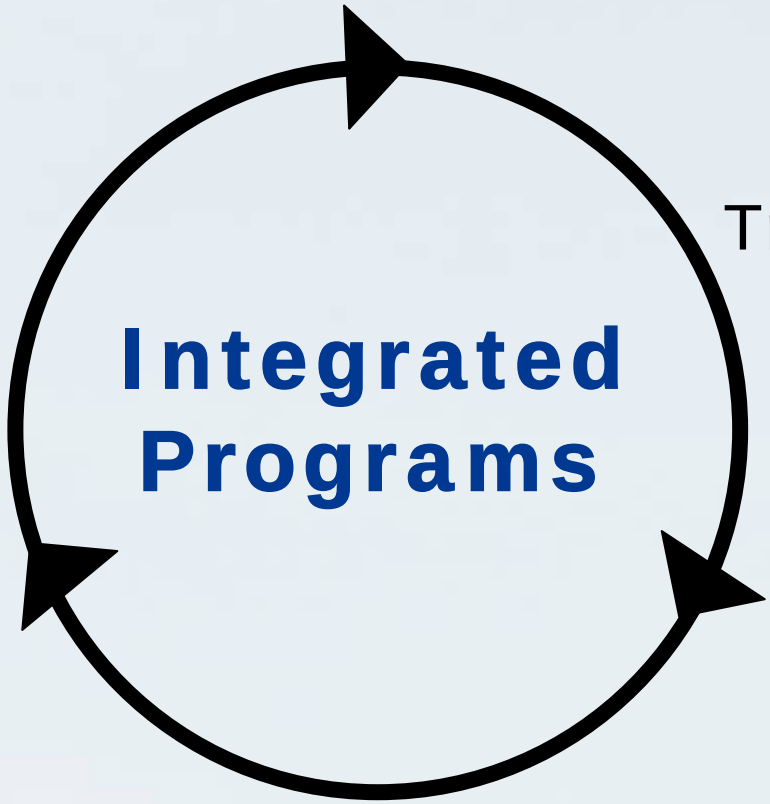
Knowledge Continuum for Research, Education, and Extension

Research

Filling gaps in knowledge

Education

Training the next generation



Extension

Dissemination of knowledge for decision-making

CSREES INTEGRATED PROGRAMS

CSREES Integrated Programs

Section 406 Integrated, Research, Education, and Extension Competitive Grants Program

- National Integrated Food Safety Initiative
- National Integrated Water Quality Program
- Integrated Pest Management Programs

CAR, RAMP, IPM Centers

- Methyl Bromide Transitions

CSREES INTEGRATED PROGRAMS

CSREES Integrated Programs

Integrated Organic Program

Pest Management Alternatives Program

International Science and Education Competitive Grants Program

National Research Initiative Integrated Programs

–17 program areas will support integrated projects in FY 2008

CSREES INTEGRATED PROGRAMS

Integrated Research Education, and Extension Competitive Grants Program (Section 406)

Integrated Programs

Grantsmanship Workshop

Integrated Research, Education, and Extension

SECTION 406

Authorized in Section 406 of the Agricultural Research, Extension and Education Reform Act of 1998 (AREERA).

Provides funding for integrated, multifunctional agricultural research, extension, and education activities.

Program Characteristics

SECTION 406

Eligible Institutions

- Accredited colleges and universities that grant a bachelor's degree or any other higher degree

  Also 1994 institutions (2002 Farm Bill)

  Matching if commodity specific

  Indirect costs capped at 20%

Appropriations

SECTION 406

2000	$39.54 M
2001	41.85 M
2002	42.85 M
2003	44.23 M
2004	39.55 M
2005	43.06 M
2006	42.29 M
2007	42.29 M
2008	41.99 M

CSREES INTEGRATED PROGRAMS

National Integrated Food Safety Initiative

SECTION 406

Support projects on priority issues in food safety that are best solved using an integrated approach

Priorities address a broad spectrum of concerns ranging from on-farm production, post-harvest processing and distribution, to food selection, preparation and consumption

$14.6 M for FY 2008

Contact: Dr. Jan Singleton

jsingleton@csrees.usda.gov

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National Integrated Water Quality Program

SECTION 406

Support research, extension and education activities that address U.S. water quality priorities

Targeted to the identification and resolution of agriculturally-related degradation of water quality

$12.6 M for FY 2008

Contact: Dr. Mike O'Neill

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CSREES INTEGRATED PROGRAMS

Integrated Pest Management: Crops at Risk

SECTION 406

Enhance the development and implementation of innovative, ecologically-based IPM systems focused on a specific food or fiber commodity in commercial production

$1.3 M for FY 2008

Contact: Dr. H.J. (Rick) Meyer
hmeyer@csrees.usda.gov

CSREES INTEGRATED PROGRAMS

Integrated Pest Management: Risk Avoidance & Mitigation

SECTION 406

Enhance the development and implementation of innovative IPM strategies for multi-crop food and fiber production systems or for production systems on an area-wide or landscape scale

$4.1 M for FY 2008

Contact: Dr. Robert Nowierski

rnowierski@csrees.usda.gov

CSREES INTEGRATED PROGRAMS

Integrated Pest Management: Regional Pest Management Centers

SECTION 406

To bring together expertise, identify needs and priorities and address a broad range of IPM issues focused at the regional level

No competition in FY 2008

Contact: Dr. Mike Fitzner

mfitzner@csrees.usda.gov

CSREES INTEGRATED PROGRAMS

Methyl Bromide Transitions

Support the discovery and implementation of practical IPM alternatives for managing soil borne pathogens and weeds, post-harvest pests, or storage and packing material sanitation

$3 M for FY 2008

Contact: William Hoffman

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Integrated Organic Program

SECTION 406

Address critical organic agriculture issues through the integration of research, education, and extension activities in support of organic producers and those adopting organic practices

$4.7 M for FY 2008

Contact: Dr. Tom Bewick

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Pest Management Alternatives Program

Develop and implement IPM practices, tactics and systems for specific pest problems while reducing human and environmental risks

$1.4 M for FY 2008

Contact: Dr. Monte Johnson
mpjohnson@csrees.usda.gov

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International Science and Education Competitive Grants Program

Support research, extension, and teaching activities that will enhance the capabilities of American colleges and universities to conduct international collaborative research, extension, and teaching

$2.0 M for FY 2008

Contact: Dr. Hiram Larew

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National Research Initiative Competitive Grants Program

Integrated Programs

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National Research Initiative

High priority research and integrated activities in agriculture, the environment, human health and well-being, and rural communities

CSREES INTEGRATED PROGRAMS

National Research Initiative

Fundamental and Mission-linked Research - *(Basic and Applied)*

Integrated Activities

(Research, Extension, and/or Education)

Single discipline or Multi-disciplinary

Individual Investigator or Teams of Investigators

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Congressional Appropriations for the NRI 1991 to 2008

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National Research Initiative

Since 2003, the NRI makes awards under two legal authorities

- **Research**
- **Integrated**

Integrated authority provided through annual appropriations bill *(up to 26% of funds in FY 2008)*

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National Research Initiative

Differences between Research and Integrated program elements

- Eligibility based on legal authorities
- Proposal (and award) types
- Award size
- “Strengthening” mechanism

NRI Integrated Eligibility

Federal research agencies, national laboratories, colleges or universities, private research organizations, and state agricultural experiment stations

Indirect costs capped at 20%

Matching required only when commodity specific and not of national scope

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NRI Integrated Projects

- One proposal type: Integrated Project Proposals
- Two award types: Integrated Project grants and Bridge grants
- Research, extension, and/or education (at least two functions required)
- Award size depends on program

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NRI Integrated Bridge Grants

- To assist small, mid-sized, and minority-serving* institutions
- **One-time infusion of up to $100K**
- May not apply directly for bridge grants

* Enrollment of one or more minority groups exceeds 50% of total

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NRI Integrated Coordinated Agricultural Projects (CAP)

- Designed to target specific gaps or make rapid progress on high priority areas
- Large Awards- $3 million plus
- May be research or integrated depending on need
- Significant % of flexible funding

NRI Conference Proposals

- To identify research, education, or extension needs, update information, or advance an area of science

National Research Initiative

What's new in the FY 2008 RFA?

- Applications must provide the elements of a logic model (e.g., activities, outputs, and outcomes):
  - Narrative form or
  - Logic Model Chart
- More balanced budget allocation
  - No more than 2/3 on a single function

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National Research Initiative

NRI Program Clusters:

- Agricultural Genomics and Biosecurity
- Agricultural Production and Value-Added Processing
- Nutrition, Food Safety and Quality
- Agroecosystems and Rural Prosperity

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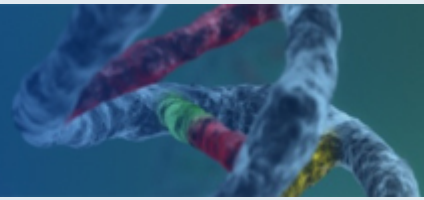
Agricultural Genomics and Biosecurity Cluster ($21.0M)

Program Areas:

- Animal Genome (A): Translational Animal Genomics (Peter Burfening)
- Animal Protection and Biosecurity (B): Animal Well-Being (Peter Brayton)
- Animal Protection and Biosecurity (C): Animal Biosecurity Coordinated Agricultural Project (Peter Johnson)

CSREES INTEGRATED PROGRAMS

Agricultural Genomics and Biosecurity Cluster ($21.0M)



Program Areas:

- Plant Biosecurity (Liang-Shiou Lin and John Sherwood)
- Plant Genome (D): Applied Plant Genomics Coordinated Agricultural Project (Ed Kaleikau)
- Arthropod and Nematode Biology and Management (E): Protection of Managed Bees CAP (Mary Purcell-Miramontes)

CSREES INTEGRATED PROGRAMS

Agricultural Production and Value-Added Processing Cluster ($2.25M)

Program Areas:

- Animal Reproduction (Mark Mirando)
- Animal Growth and Nutrient Utilization (Mark Mirando)
- Plant Biology (E): Plant Breeding and Education (Gail McLean & Liang-Shiou Lin)

CSREES INTEGRATED PROGRAMS

Nutrition, Food Safety and Quality Cluster ($12.5 M)

Program Areas:

- Bioactive Food Components for Optimal Health (Etta Saltos)
- Human Nutrition and Obesity (Etta Saltos and Susan Welsh)
- Improving Food Quality and Value (Ram Rao and Hongda Chen)

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Agroecosystems and Rural Prosperity ($16.6 M)

Program Areas:

- Air Quality (Ray Knighton)
- Managed Ecosystems (Diana Jerkins)
- Biology of Weedy and Invasive Species in Agroecosystems (Michael Bowers)

CSREES INTEGRATED PROGRAMS

Agroecosystems and Rural Prosperity ($16.6 M)

Program Areas:

- Rural Development (S. Sureshwaran)
- Agricultural Prosperity for Small and Medium-Sized Farms (S. Sureshwaran and Diana Jerkins)

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Integrated Programs Solve Today's Problems

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