1890 Institution Teaching, Research and Extension Capacity Building Grants (CBG) Program

Fiscal Year 2013 Request for Applications

APPLICATION DEADLINE: March 5, 2013

U.S. Department of Agriculture
National Institute of Food and Agriculture
NATIONAL INSTITUTE OF FOOD AND AGRICULTURE; U.S. DEPARTMENT OF AGRICULTURE

1890 INSTITUTION TEACHING, RESEARCH AND EXTENSION CAPACITY BUILDING GRANTS (CBG) PROGRAM

INITIAL ANNOUNCEMENT

CATALOG OF FEDERAL DOMESTIC ASSISTANCE: This program is listed in the Catalog of Federal Domestic Assistance under 10.216.

DATES: Applications must be received by close of business (COB) on March 5, 2013 (5:00 p.m. Eastern Time). Applications received after this deadline will normally not be considered for funding. Comments regarding this request for applications (RFA) are requested within six months from the issuance of this notice. Comments received after that date will be considered to the extent practicable.

STAKEHOLDER INPUT: The National Institute of Food and Agriculture (NIFA) is requesting comments regarding this RFA from any interested party. These comments will be considered in the development of the next RFA for the program, if applicable, and will be used to meet the requirements of section 103(c)(2) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7613(c)(2)). This section requires the Secretary to solicit and consider input on a current RFA from persons who conduct or use agricultural research, education and extension for use in formulating future RFAs for competitive programs. Written stakeholder comments on this RFA should be submitted in accordance with the deadline set forth in the DATES portion of this Notice.

Written stakeholder comments should be submitted by mail to: Policy and Oversight Division; Office of Grants and Financial Management; National Institute of Food and Agriculture; USDA; STOP 2299; 1400 Independence Avenue, SW; Washington, DC 20250-2299; or via e-mail to: Policy@nifa.usda.gov. (This e-mail address is intended only for receiving comments regarding this RFA and not requesting information or forms.) In your comments, please state that you are responding to the 1890 Institution Education, Research and Extension Capacity Building Grants Program RFA.

EXECUTIVE SUMMARY: NIFA anticipates that grant funds will be available and requests applications for the 1890 Institution Teaching, Research and Extension Capacity Building Grants (CBG) Program for fiscal year (FY) 2013. The intent of this program is to build and strengthen institutional capacity through stimulating the development of high quality Education, Research and Extension programs at the 1890 Land-Grant Universities to produce baccalaureate and higher level degree graduates capable of strengthening the Nation’s food and agricultural scientists and professionals, developing strong research that addresses current challenges in today’s agriculture, and delivering needed help to communities, small farms and other clients. Providing this support requires the CBG program to build and strengthen research, teaching and extension capacity needed to advance fundamental sciences as well as translational research and development in support of agriculture; and coordinate opportunities to build on
these discoveries at the 1890 Land-grant Universities. It is anticipated that approximately $\textbf{18 million}$ will be available to fund applications in FY 2013.

The RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of additional Continuing Resolutions or an Appropriations Act may affect the availability or level of funding for this program.

This notice identifies the objectives for CBG projects, the eligibility criteria for projects and applicants, and the application forms and associated instructions needed to apply for a CBG grant. NIFA additionally requests stakeholder input from any interested party for use in the development of the next RFA for this program.
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PART I—FUNDING OPPORTUNITY DESCRIPTION

A. Legislative Authority and Background

Authority for this program is contained in section 1417 (b)(4) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (NARETPA), as amended (7 U.S.C. 3152 (b)(4)) and pursuant to annual appropriations made available specifically for the 1890 Capacity Building Program. Section 7107 of the Food, Conservation, and Energy Act of 2008 (FCEA) (Pub. L. 110-246) amended the authority for the 1890 Capacity Building Program to allow for extension capacity building, as well as teaching and research. In accordance with the statutory authority, subject to the availability of funds, the Secretary of Agriculture may make competitive grants, for a period not to exceed five (5) years, to design and implement food and agricultural programs to build Teaching, Research and Extension capacity at colleges and universities having significant minority enrollments.

The CBG Program supports USDA’s Research, Education and Economics (REE) 2012 Strategic Goal #6: Education and Science Literacy to recruit, cultivate, and develop the next generation of scientists and leaders, and to produce a highly-skilled workforce for food, agriculture, natural resources, forestry, and environmental systems.

For purposes of this program, the term “food and agricultural sciences” means basic, applied, and developmental research, extension, and teaching activities in the food and fiber, agricultural, renewable natural resources, forestry, and physical and social sciences, in the broadest sense of these terms, including but not limited to, activities relating to the production, processing, marketing, distribution, conservation, utilization, consumption, research, and development of food and agriculturally related products and services, and inclusive of programs in agriculture, natural resources, aquaculture, forestry, veterinary medicine, family and consumer sciences (previously known as home economics), rural human ecology, rural economic, community, or business development, and closely allied disciplines.

This RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of additional Continuing Resolutions or an Appropriations Act may affect the availability or level of funding for this program.

B. Purpose and Priorities

The Department of Agriculture depends upon sound programs in the food and agricultural sciences through partnership with the Nation’s colleges and universities to produce well trained professionals for careers in the food and agricultural sciences and conducted research and extension activities that address the challenges in food and agriculture in the US.

The purpose of the 1890 Capacity Building Program is to support research, education, and extension as well as integrated research, teaching, and/or extension by awarding grants that address key problems of national, regional, and multi-institutional importance in sustaining all components of agriculture, including farm efficiency and profitability, ranching, renewable energy, forestry (both urban and agroforestry), aquaculture, rural communities and entrepreneurship, human nutrition, food safety, family and consumer sciences, biotechnology,
and conventional breeding. Providing this support requires the CBG program to build and strengthen research, teaching and extension capacity needed to advance fundamental sciences as well as translational research and development in support of agriculture; and coordinate opportunities to build on these discoveries at the 1890 Land-grant Universities. The CBG Program is intended to stimulate development of high quality education, research and extension programs at these institutions to assist USDA in its mission of providing a professional work force in the food and agricultural sciences. This CBG Program is competitive in nature and provides support to the 1890 land-grant institutions (1890s) for Teaching, Research and Extension projects in targeted high-priority areas. Cooperation with a USDA agency in developing a proposal and carrying out a project is not required, but may be useful for strengthening departmental partnerships and linkages with these important Land Grant institutions.

This program is designed specifically to build the institutional Teaching, Research and Extension capacities of the eligible institutions through cooperative programs with Federal and non-Federal entities. The program is designed to achieve three (3) major goals:

1. To advance cultural diversity of the food and agricultural scientific and professional work force by attracting and educating more students from underrepresented groups;
2. To strengthen linkages among the 1890 institutions, other colleges and universities, USDA, other federal agencies, and private industry; and
3. To enhance and strengthen the quality of Teaching, Research and Extension programs at the 1890 institutions to more readily establish them as full partners in the U.S. food and agricultural sciences higher education system.

Definitions for ‘capacity building’ and ‘food and agricultural sciences’ are listed in Part VIII, E. - Definitions.

Applications are being solicited and must follow the format provided in Part IV, B, and address all of the following five (5) items:

1. Focus on at least one (1) of the Program Areas described in Part I, C: Teaching in section C.1, Research in section C.2, or Extension in section C.3;
2. Address at least one (1) of the Program Priority Areas (described in Part I, D.);
3. Address at least one (1) of the Program Need Areas (described in Part I, E.);
4. Document how project accomplishments (e.g., Products, Results and Impacts) will be disseminated or otherwise published to the broadest extent throughout the academic or scientific community (described in Part IV, B, Dissemination Plans); and
5. Provide a unique application title that is different from the program code name: "1890 Institution Teaching, Research and Extension Capacity Building Grants Program".

This RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of additional Continuing Resolutions or an Appropriations Act may affect the availability or level of funding for this program.

C. Program Area Description

1) Teaching Applications must focus on one (1) or more of the following:
a) **Degree Levels:** Teaching improvement and research training projects in the food and agricultural sciences (Part VIII, E. Definitions) at the

i) Baccalaureate degree-level, or

ii) Graduate degree-level

b) **Faculty Development in Food and Agricultural Sciences**

c) **Outreach Programs:** to expose K-12 students and teachers to agricultural topics and generate interest in agricultural careers. Programs that may be considered include agriculture-based high schools, urban-agricultural education programs, summer high-school or youth programs in agriculture, and partnerships with youth-focused programs, such as 4-H.

2) **Research Applications must focus upon one (1) or more of the following:**

a) **Fundamental research to** provide basic knowledge that enables advances in applied research and from which major conceptual breakthroughs are expected to occur.

b) **Applied research to** expand the findings of fundamental research in order to uncover practical ways in which new knowledge can be advanced to benefit individuals and society.

c) **Multidisciplinary Research to provide close collaboration** between two (2) or more disciplines. These collaborations, where appropriate, may integrate the biological, physical, chemical, or social sciences.

3) **Extension Applications must focus upon one (1) or more of the following:**

a) **4-H Youth Development:** cultivates important life skills in youth that build character and assist them in making appropriate life and career choices, addresses at-risk youth challenges such as school retention and academic achievement, engages youth in STEM education, social skills, and much more, through hands-on projects and activities;

b) **Agriculture:** extension programs help individuals learn new ways to produce income through alternative enterprises, improved marketing strategies, and management skills and help farmers, ranchers, and foresters improve productivity through resource management, controlling crop pests, soil testing, livestock production practices, and marketing. The 1890 institutions are also involved in aquaculture, small ruminant production, small fruits and vegetable production, and many other niche crops that are important to small-scale producers;

c) **Leadership Development:** trains extension professionals and volunteers to deliver programs in agriculture, gardening, health and safety, family and consumer issues, and 4-H youth development and serve in leadership roles in the community;

d) **Natural Resources:** informs landowners and homeowners how to use natural resources wisely and protect the environment with educational programs in water quality, timber management, composting, lawn waste management, and recycling;
e) **Family and Consumer Sciences**: helps families become resilient and healthy by teaching nutrition, food preparation skills, positive child care, parenting, family communication, financial management, and health care strategies; and/or

f) **Community and Economic Development**: helps local governments, community and non-profit organizations to investigate and create viable options for economic and community development, such as improved job creation and retention, small medium-sized and family-owned business development, effective and coordinated emergency response, solid waste disposal, tourism development, workforce education, and land use planning.

The CBG Program encourages projects that develop content and programs suitable for delivery through the Cooperative Extension System’s eXtension Initiative. Funds may be used to contribute to existing Communities of Practice (CoP) or to form a new CoP. Projects must align with the eXtension vision, mission, and values. A letter of acknowledgement from eXtension is required, and a letter of support may be required from one or more of the Communities of Practice. For detailed guidance on how to partner with eXtension, go to [http://create.extension.org/node/2057](http://create.extension.org/node/2057).

**D. Program Priority Areas**

The Department of Agriculture and stakeholders identified a number of high priority areas. Applicants must address at least one (1) of the following FY 2013 Priorities for the 1890 Capacity Building Grant Program.

1) **CBG Program Priority Areas**

These high priority areas are for Education, Research or Extension applications. The application should have the potential to encourage regional or national program delivery in one (1) of the priority areas. Applications must address one (1) or more of the following priority areas:

a) Human health, obesity as it relates to nutrition, and human sciences;
b) Bio-energy/biofuel and natural resources;
c) Food safety;
d) Water quality;
e) Global food security and agricultural bio-security;
f) Rural communities for 21st century (expanded opportunities for small businesses and small farms);
g) Sustainable agriculture;
h) Youth development;
i) Family and consumer sciences; and/or
j) Global climate change including environmental sciences.

2) **Other Areas in General Food & Agricultural Science**

This Priority is for innovative applications in Education, Research or Extension in areas that address local, regional, or national issues in **food and agricultural sciences not included in priority areas listed in Part I, D.1**. Projects in this area may not fit any of
the USDA or NIFA Strategic Goals but address an emerging local, regional or national issue.

E. Program Need Areas

1) Teaching

Education applications must address one (1) or more of the following Need Areas identified below. The applications may include activities to institute academic coursework that may be offered for-credit. Applicants are encouraged to design innovative projects that have broad-based applicability beyond a single course or an individual instructor and include a library enhancement or digital component. These projects must be related to subject matter within the broadly defined food and agricultural sciences (Part VIII, E. - Definitions).

In support of the proposal and to improve the submitted project, applicants are strongly encouraged to reference recommendations from the National Academy of Science 2009 report entitled, *Transforming Agricultural Education for a Changing World*. This report recommends that academic institutions with undergraduate programs in agriculture implement the following nine steps to better meet the needs of students, employers, and the broader society. For information on the full report, please refer to [http://dels.nas.edu/ag_education/report.shtml](http://dels.nas.edu/ag_education/report.shtml) and click on recommendations. The list of recommendations ([http://dels-old.nas.edu/ag_education/recommendations.shtml](http://dels-old.nas.edu/ag_education/recommendations.shtml)) follows:

- Implement Strategic Planning
- Broaden Treatment of Agriculture in the Overall Curriculum
- Broaden the Student Experience
- Prepare Faculty to Teach Effectively
- Reward Exemplary Teaching
- Build Stronger Connections among Institutions
- Start Early—K-12 Outreach
- Build Strategic Partnerships
- Focus Reviews of Undergraduate Programs in Agriculture

The CBG Program supports the goals and objectives of the Federal Coordination in STEM Education Task Force as defined in the *Coordinating Federal Science, Technology, Engineering, And Mathematics (Stem) Education Investments: Progress Report.*

The **STEM Workforce goal and objectives** are to:

Provide the STEM education and training opportunities needed to prepare a diverse, well-qualified workforce that is able to address the mission needs of the Federal agencies and lead in innovation across the broad spectrum of industries and occupations related to the missions of Federal agencies.

**Workforce Objective 1:** Ensure that a well-qualified pool of candidates is prepared to meet the current and future STEM workforce needs of Federal agencies and related industries.
Workforce Objective 2: Ensure that a well-qualified pool of candidates for Federal agencies and related industries reflects the diversity of the Nation.

The STEM Literacy and Proficiency goal and relevant objectives are to:

- Increase access to and improve the quality of PreK-12, postsecondary, and informal STEM education.

Literacy and Proficiency Objective 1: Increase interest and engagement in STEM among children and adults, especially those from groups traditionally underrepresented in STEM, so that learners are motivated to explore and participate in STEM throughout their lives.

Literacy and Proficiency Objective 2: Increase opportunities for children and adults, especially for members of groups traditionally underrepresented in STEM, to develop deeper STEM knowledge, skills, and abilities.

Literacy and Proficiency Objective 3: Improve STEM educator and leader preparation, induction, and professional development programs, especially for those individuals from groups traditionally underrepresented in STEM, to improve the quality of STEM instruction.

Literacy and Proficiency Objective 4: Improve the capacity of U.S. education institutions to support effective STEM education and learning programs.

Literacy and Proficiency Objective 5: Increase the STEM learning research base and widespread use of evidence-based STEM education practices to improve STEM education in formal and informal learning environments.

For additional information on the Federal STEM education investments, visit: [http://www.whitehouse.gov/sites/default/files/microsites/ostp/nstc_federal_stem_education_coordination_report.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/nstc_federal_stem_education_coordination_report.pdf)

Applications must demonstrate how their chosen Program Priority Area is addressed when selecting a Need Area.

a) Curricula Design and Materials Development

This Need Area promotes developing new (or adapting existing) curricula and related materials to meet changes anticipated within the food and agricultural sciences system. Projects should be integrated and multidisciplinary, and possess learner-centered instruction which will demonstrate an improvement in teaching and student learning against core course objectives. Applicants are expected to demonstrate how the project will reach large audiences efficiently and effectively, provide hands-on learning experiences, extend learning beyond the classroom, reinforce recent research on how to motivate students to learn, retain, apply, and transfer knowledge, skills, and competencies, and integrate and synthesize knowledge.
b) **Faculty Preparation and Enhancement for Education**

This Need Area prepares academic faculty for sustainable change to address emerging student clientele (demographic composition, learning styles, digital applicability), improving Education competency (subject matter expertise and pedagogy), or developing student recruitment and advising skills (career opportunities in emerging agricultural sciences fields). It is envisioned that efforts under this area will allow faculty to be better prepared to teach future courses related to building human capital in the food and agricultural sciences.

Examples of projects addressing this Area include, but are not limited to, initiatives that enable Education faculty to: gain experience with recent developments or innovative technology relevant to their Education responsibilities; work under the guidance and direction of experts who have substantial expertise in an area related to project goals; work with professionals or peers in government, industry, or colleges or universities to learn new applications in a field; expand competence with new methods of information delivery related to Education; or increase understanding of the special needs of non-traditional students or students from groups that are underrepresented in the food and agricultural sciences workforce.

c) **Instructional Delivery Systems**

This Need Area encourages the development and use of alternative methods of delivering instruction to enhance the quality, effectiveness, and cost efficiency of Education programs. Examples of alternative methods of delivering instruction include, but are not limited to: using state-of-the-art digital technology; faculty sharing, cross enrollments, joint degrees, teleconferencing; networking via satellite communications; e-learning and online instruction or utilizing mobile classrooms and laboratories and individualized learning centers. Multi-institutional, regional or national collaborations are encouraged. Emphasis should be on improving the art of Education by faculty.

d) **Scientific Instrumentation for Education**

This Need Area provides students with the necessary experience with suitable, up-to-date equipment to involve them in work central to understanding advances in the food and agricultural sciences and to prepare them for work or further graduate/professional training.

This program initiative will support the acquisition of instructional laboratory and classroom equipment to assure the achievement and maintenance of outstanding food and agricultural sciences higher education programs. An application may request support for: (1) acquiring new, state-of-the-art instructional equipment; (2) upgrading existing equipment; (3) replacing non-functional or obsolete equipment; or (4) establishing equipment-sharing capabilities via consortia or centers that develop innovative opportunities such as mobile laboratories or satellite access to industry or government laboratories.

e) **Student Experiential Learning**

This Need Area encourages the development of new student learning opportunities where students are placed in team-oriented, problem-solving, decision-making
situations in the context of real-world experiences. Experiential learning in laboratory research or other internships with business and industry, community organizations, federal agencies and other domains that provide knowledge and skills for graduate study should be given priority.

Projects addressing this Area must: (1) demonstrate how the experience will produce qualified and well trained graduates, (2) contain an evaluation process involving both the faculty or mentor to assure that students meet project objectives, and (3) document that the field of science under consideration is experiencing a shortage of scientific and professional personnel, and how the project plans to address this deficiency. Individual students may be supported under this experiential learning opportunity for up to three (3) years (including summers, semesters, or semester breaks). Requested grant funds may be used as stipends for students while they are working in research/field settings. Students should be required to prepare written and oral summaries of the experiential learning gained through this opportunity. To attract high-caliber students, stipends should be competitive with alternative employment options. A modest amount of funds may be requested for materials/supplies to facilitate a student’s broad exposure to research/field techniques and methodologies. Grant recipients are encouraged to take advantage of any related paid internship opportunities provided by state, county, federal, business and industry sources.

**f) Student Recruitment and Retention**

This Need Area is to enhance student recruitment and retention programs in order to strengthen the Nation's scientific and professional workforce.

Examples of projects that address this Area include, but are not limited to: special outreach programs for enhancing the academic pipeline for elementary and secondary students; outreach to parents, counselors, and the general public to broaden awareness of the extensive nature and diversity of career opportunities for graduates in the food and agricultural sciences; developing curriculum and learning modules for state Ag in the Classroom teachers that establish more effective linkages with high school science classes and promote general agricultural literacy. Unique or innovative student recruitment activities, materials, and personnel; special retention programs to assure student progression through and completion of an educational program; development and dissemination of stimulating career information materials; use of regional or national media to promote food and agricultural sciences higher education; or provision of financial assistance to enable and encourage students to pursue and complete an undergraduate or graduate degree in an area of the food and agricultural sciences. Recruitment and retention efforts should be summarized quantitatively (i.e., numbers of students recruited against those contacted) and qualitatively (i.e., lessons learned that improve future recruitment strategies).

**NOTE:** Please refer to the Office of Management and Budget (OMB) Circular No. A-21 (codified at 2 CFR Part 220); Cost Principles for Educational Institutions for specific details regarding allowable costs.
2) Research

Research applications must address one (1) or more of the following Need Areas where there is a present or anticipated need for increased science-based knowledge to address emerging state, regional, national and global issues. Applicants are encouraged to include a library enhancement component related to the Area in their applications. In addition, these projects must be related to subject matter within the broadly defined food and agricultural sciences (see Part VIII, E. - Definitions).

In support of the proposal and to improve the submitted project, applicants are strongly encouraged to reference recommendations from the National Academy of Science 2010 report entitled, New Biology for the 21st Century: Ensuring the United States Leads the Coming Revolution,” (http://www.nap.edu/openbook.php?record_id=12764&page=1). The report contained a set of recommendations that recognize that the most effective leveraging of investments would come from a coordinated, interagency effort to encourage the emergence of a New Biology that would enunciate and address broad and challenging societal problems.

Applications must demonstrate how their chosen Program Priority Area is addressed when selecting a Need Area.

a) Studies and Experimentation in Food and Agricultural Sciences

The purpose of this Need Area is to advance the body of knowledge in those basic and applied natural and social sciences that comprise the food and agricultural sciences. Projects addressing this Area are encouraged to focus on multidisciplinary and interdisciplinary research activities addressing critical issues rather than single discipline-specific research studies.

Examples of studies and experiments that address this Area include, but are not limited to: conceiving, designing, and evaluating new bio-processing techniques for eliminating undesirable constituents from or adding desirable ones to food products; development of bio-energy/fuel alternatives, conducting plant or animal breeding programs to develop higher yielding and improved quality products and improved diseases resistance; proposing and evaluating methods to enhance utilization of the capabilities and resources of food and agricultural institutions to promote rural development (e.g., exploitation of new technologies by small rural businesses); identifying control factors that influence consumer demand for agricultural products; analyzing social, economic, and physiological aspects of nutrition and health, food choices, and lifestyle choices, and community strategies for meeting the changing needs of different population groups; or advancing the body of knowledge in highly important scientific, food and agriculture program areas such as human nutrition, food safety, sustainable agriculture, global climate change, biotechnology and genomics, newly developed research areas, such as proteomics, metabolimics and nano-technology.

b) Centralized Research Support Systems

The purpose of this Need Area is to establish centralized research support systems that: (1) meet national needs or serve regions or 1890 institution clientele that cannot
otherwise afford, or do not have access to such support; or (2) provide research support more economically, thereby freeing up resources for other research uses. Applicants must demonstrate how their chosen Program Priority Area is addressed when selecting this Area. Examples of projects that address this Area include but are not limited to: storage, maintenance, characterization, evaluation and enhancement of germplasm for use by animal and plant breeders, including those using the techniques of biotechnology; establishment of computerized data banks of important scientific information (e.g., human nutrition, epidemiological, demographic, weather, economic, crop yields); or establishment of expert service centers for sophisticated and highly specialized methodologies (e.g., evaluation of organoleptic and nutritional quality of foods, toxicology, taxonomic identifications and consumer preferences demographics).

3) Extension

Extension applications must address one (1) or more of the following Need Areas where there is a present or anticipated need for increased science-based knowledge to address emerging state, regional, national and global issues.

a) Extension Program Development Support Systems
The purpose of this area is to increase the quality of extension educational programs to clientele through training of Extension specialists, educators, para-professionals, technicians and volunteers. The training may focus on professional development, leadership development, application of the extension program development model, development of train the trainer models, volunteer development, volunteer delivery systems, etc. This area will also include program accountability support systems which will translate into the delivery of more effective programs by enhancing the expertise and instruments available to effectively report impacts and evaluate extension programs.

b) Extension Technology Upgrades
The purpose of this area is to provide funds to upgrade traditional equipment and instruments, establishing mobile delivery systems (laboratories and food safety kitchens, etc.) and offer emerging delivery technologies (e.g., IT applications such as distance education, web conferencing, podcasting, and facebook interfaces).

c) Extension Delivery/Methodology
The purpose of this need area is to develop effective methodologies, strategies, or delivery systems to enhance services to the underserved, including developing new or modifying existing curriculums; establishing program centers, experiential learning programs, or after-school programs; and utilizing research results for effective programs and innovations based on the “Demonstrations Method”.
4) Integrated Project Grants

The primary intent of this initiative is to increase and/or strengthen food and agriculture sciences at the 1890 institutions through integration of research, education, and/or extension. One (1) of the founding pillars of NIFA is to bring together research, education, and extension in a coordinated manner to address high-priority national, multistate, or regional agricultural issues. Please keep in mind that, the CBG defined integrated application as a proposal type and not program type. The 1890 CBG congressional legislation authorized three program areas; research, teaching and extension. Because of the importance of integration of the three areas in strengthening the effectiveness in building capacity of the 1890 universities, this type of proposal was added to the 1890 CBG program. Integrated applications must include at least two (2) of the three (3) program areas. The applications will be placed in appropriate funding program area (Research, Teaching, or Extension) based on the defined primary area. The primary area is defined as the area which will receive most of the funding (up to two thirds of the total funding). The program code that will be used for the integrated applications must be selected based solely on the primary area of an application (see section F. of this part).

NIFA places high value on integration in program design and implementation in order to address the many and complex problems facing U.S. agriculture. Research, education, and extension integration may be done at the project level or more generally at the program level. A project or application is optimally integrated if the components complement each other and are truly necessary for its ultimate success. Research is expected to address knowledge gaps that are critical to the development of practices and programs to address a problem. Extension activities will lead to measurable, documented changes in learning, actions, or conditions in an identified audience or stakeholder group. Education initiatives will strengthen institutional capacities and result in curricula and related products that provide sustained impact.

Applicants are encouraged to see http://www.NIFA.usda.gov/funding/integrated/integrated.html for an example of an integrated proposal and other grant-writing resources.

F. Program Code

Based on the congressional authorization, each application must be self-designated as teaching, research or extension in the Project Summary [see Part IV, B. 3.a.]. Applications that are not so designated with the codes below will be assigned to a category by NIFA.

- Program Code: EP (Education)
- Program Code: EQ (Research)
- Program Code: EWE (Extension)

Only one code must be used when applicants are completing the NIFA Supplemental Information form (See Part IV, B.8). The applicant must select the correct code that responds to type of application (research, teaching, or extension). Selecting the incorrect code will result in the application being directed to the wrong review panel.
G. Discipline Codes for 1890 Capacity Building Grants Program

Eligible institutions may, within the Education, Research, or Extension Project Need Areas identified for support, propose projects in any discipline(s) or subject matter area(s) of the food and agricultural sciences noted below:

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<td>M1</td>
<td>Agribusiness Management &amp; Marketing</td>
<td>L2</td>
<td>Agribusiness Management &amp; Marketing</td>
<td>A3</td>
<td>4-H Youth Development</td>
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<td>Agricultural Engineering</td>
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<td>Animal Sciences</td>
<td>D3</td>
<td>Natural Resources</td>
</tr>
<tr>
<td>T1</td>
<td>Entomology</td>
<td>P2</td>
<td>Aquaculture</td>
<td>E3</td>
<td>Family and Consumer Sciences</td>
</tr>
<tr>
<td>C1</td>
<td>Environmental Science &amp; Natural Resource</td>
<td>C2</td>
<td>Conservation and Renewable Natural Resources</td>
<td>F3</td>
<td>Community and Economic Development</td>
</tr>
<tr>
<td>F1</td>
<td>Food Science/Technology</td>
<td>S2</td>
<td>Entomology</td>
<td>I3</td>
<td>International Extension</td>
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<tr>
<td>G1</td>
<td>General Agricultural Science</td>
<td>J2</td>
<td>Environmental Sciences/Management</td>
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<tr>
<td>H1</td>
<td>Human Sciences</td>
<td>F2</td>
<td>Food Science/Technology</td>
<td></td>
<td></td>
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<tr>
<td>N1</td>
<td>Human Nutrition</td>
<td>M2</td>
<td>Human Nutrition</td>
<td></td>
<td></td>
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<tr>
<td>I1</td>
<td>International Education</td>
<td>I2</td>
<td>International Education/Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1</td>
<td>Plant Sciences</td>
<td>N2</td>
<td>Plant Sciences</td>
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<tr>
<td>B1</td>
<td>Related Biological Sciences</td>
<td>B2</td>
<td>Related Biological Sciences</td>
<td></td>
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<tr>
<td>R1</td>
<td>Rural Development / Social Science</td>
<td>O2</td>
<td>Soil Sciences</td>
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<td></td>
</tr>
<tr>
<td>V1</td>
<td>Veterinary Science</td>
<td></td>
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</tbody>
</table>

These discipline codes are used to identify the reviewers’ expertise needed to review the applications. **Keeping in mind that each application is reviewed by three panelists and an Ad hoc reviewer, applicants may use no more than three discipline codes. However, it is important to identify a primary discipline code.**

Since the discipline codes are specific to CBG, the Grants.gov application forms do not include any of the above-referenced discipline codes. In the keywords portion of the application package, applicants should include words that clearly designate which of the Challenge areas, Program Priority Areas, Need Areas, and Discipline(s) are addressed in the application.
H. USDA Priorities and NIFA Challenge Areas

The FY 2008 Farm Bill identified the following priorities for the United States agriculture:

1. Plant health and production and plant products;
2. Animal health and production and animal products;
3. Food safety, nutrition, and health;
4. Renewable energy, natural resources, and environment;
5. Agriculture systems and technology; and
6. Agriculture economics and rural communities.

From those priority areas, the National Institute of Food and Agriculture identified the following challenge areas as a focus and all applications must address at least one (1) of the Challenge Areas:

a. Childhood Obesity Prevention
b. Climate Change
c. Food Safety
d. Food Security
e. Sustainable Bioenergy
PART II—AWARD INFORMATION

A. Available Funding

There is no commitment by USDA to fund any particular application or to make a specific number of awards. It is anticipated that approximately $18 million will be available to fund applications in FY 2013.

This RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of additional Continuing Resolutions or an Appropriations Act may affect the availability or level of funding for this program.

Awards issued as a result of this RFA will have designated the Automated Standard Applications for Payment System (ASAP), operated by the Department of Treasury’s Financial Management Service, as the payment system for funds. For more information see http://www.nifa.usda.gov/business/method_of_payment.html.

Funding and Award Restrictions

a) A single application must be either: a Teaching Project, a Research Project, an Extension Project, or an Integrated Project;

b) Eligible institutions may submit up to 12 applications per institution in FY 2013;

c) An eligible institution may receive education, research, extension and/or integrated awards up to a maximum of 10 percent (10%) of the available 1890 CBG funds.

d) Keeping in mind that funds will be distributed equally between research, teaching and extension program areas, awards will be made based on quality of applications. In the absence of enough qualified applications submitted for funding to a particular area, the remaining funds will be redistributed among the other areas based on the quality of applications.

B. Types of Applications

In FY 2013, applications may be submitted to the CBG Program as one of the following types of requests:

(1) **New application.** This is a project application that has not been previously submitted to the CBG Program. All new applications will be reviewed competitively using the selection process and evaluation criteria described in Part V—Application Review Requirements.

(2) **Renewal application.** This is a project application that requests additional funding for a project beyond the period that was approved in an original or amended award. Applications for renewed funding must contain the same information as required for new applications, and additionally must contain a Progress Report (see Project Narrative, Part IV). PDs should thoroughly demonstrate in their application how the proposed project expands substantially upon
a previously funded project (i.e., demonstrate how the new project will advance the former project to the next level of attainment or will achieve expanded goals). The proposal must also show the degree to which the new phase promotes innovativeness and creativity beyond the scope of the previously funded project. Renewal applications must be received by the relevant due dates, will be evaluated in competition with other pending applications in appropriate area to which they are assigned, and will be reviewed according to the same evaluation criteria as new applications.

(3) **Resubmitted application.** This is an application that had previously been submitted to the CBG Program but not funded. Project Directors (PDs) must respond to the previous review panel summary (see Response to Previous Review, Part IV). Resubmitted applications must be received by the relevant due dates, will be evaluated in competition with other pending applications in appropriate area to which they are assigned, and will be reviewed according to the same evaluation criteria as new applications.

### C. Project Types

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Teaching</th>
<th>Research</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Project Budget</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Institution Applications¹</td>
<td>$150,000</td>
<td>$300,000</td>
<td>$250,000</td>
</tr>
<tr>
<td>Joint Project Proposals²</td>
<td>$300,000</td>
<td>$500,000</td>
<td>$350,000</td>
</tr>
<tr>
<td>Integrated Project Applications³</td>
<td></td>
<td></td>
<td>$600,000</td>
</tr>
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</table>

Project periods will be up to 36 months in duration. Including potential no-cost extension(s), the project period must not exceed the statutory maximum of 60 months. (See Award Terms and Conditions for further details.)

NIFA has limited the amount of funding for which Single, Joint and Integrated Project Proposals may apply.

Applicants may submit:

1. **Single Institution Proposals (see Part VIII, E. - Definitions):**

Education, Research or Extension applications that **support single institution approaches** to local or regional problems or opportunities in one (1) of the selected areas listed under the priority areas (Part I, D.). The application should have the potential to encourage regional or national program delivery in one (1) of the selected priority areas. In Single Institution Proposals, grant funds are limited to the applicant institution (i.e., sub-award budgets are not allowable). A Project Director may receive only one (1) new award as the lead individual in a Need Area that focuses on a single subject or discipline. Funds **do not** have to be equally divided among project years.
2. Joint Project Proposals (see Part VIII, E. - Definitions):

Education, Research and/or Extension applications that support joint projects (Part VIII, E. Definitions), including approaches to: scientific investigations (Research); curriculum development, student training, or faculty development (Education); or program delivery (Extension) that are multidisciplinary and interdisciplinary and that address critical U.S. food and agricultural issues at the local, state, regional and national level(s). The applications should address food and agricultural priority areas identified in Parts I, D. In Joint Project Proposals, the applicant institution will transfer no more than one-half (1/2) of the awarded funds to the other institutions participating in the project.

3. Integrated Project Proposals

An integrated application includes at least two (2) of the three (3) components of the agricultural knowledge system (i.e., research, education, and extension) within an application. An integrated project must name one (1) of the program areas (education, research or extension) as the Primary Program Area. The functions addressed in the application should be interwoven throughout the life of the project and act to complement and reinforce each other. In other words, the functions should be interdependent and necessary for the success of the project. There is no program code for the integrated application. Therefore, it is imperative that the applicants clearly identify the primary area in their abstract/summary and select the appropriate program code for this area.

The application may address one (1) of the food and agricultural program areas identified in Part I, C. and one (1) of the Priority program areas (Part I, D.). Integrated Project Applications that do not address one (1) of the Priority Program Areas and do not support one (1) of the NIFA Challenge areas (Part I, H.) will not be accepted by the National Program Leader (NPL) for consideration of funding.

The following criteria are applicable:

a) The proposed research component of an integrated project application should address knowledge gaps that are critical to the development of practices and programs to address the stated problem;

b) The proposed extension component of an integrated project application should lead to measurable, documented changes in learning, actions, or conditions in an identified audience or stakeholder group. Extension related activities designed to build institutional capacity are also allowable. The extension component should incorporate a wide range of research results, not just those of the current project application. Please note that research-related activities such as publication of papers, or speaking at scientific meetings are not considered extension for the purposes of this program;

c) The proposed education (teaching and teaching-related) component of an integrated project application should strengthen institutional capacities and result in curricula and related products that will be sustained beyond the life of the project. The following activities are appropriate for the education component of an integrated project application: curriculum development; instructional materials development; education delivery systems; student experiential learning (internships, externships, clinics); student recruitment and retention efforts; career planning materials and counseling; pedagogy; student learning styles and student-centered instruction; faculty development programs;
student study abroad and international research opportunities relevant to overall program goals for U.S. agriculture; and faculty and student exchanges;

d) Integrated project applications should aim to resolve today’s problems through the application of science-based knowledge;

e) Integrated project applications should address needs identified by stakeholders. Stakeholder involvement in project application development, implementation, and evaluation is strongly encouraged, where appropriate;

f) Integrated project applications should clearly identify anticipated outcomes and must have a plan for evaluating and documenting the success of the project. The applicant is strongly advised to consult with an evaluation specialist to develop appropriate measures of success;

g) Applications proposing integrated projects must include the elements of a logic model detailing the activities, outputs, and outcomes of the proposed project. This information may be provided as a narrative or formatted into a logic model chart. More information and resources related to the logic model planning process are provided at http://www.NIFA.usda.gov/funding/integrated/integrated_logic_model.html;

h) Integrated applications should contain objectives for each function included in the project. Please note that extension and education activities are expected to differ and should be described in separate project objectives;

i) Integrated project applications must budget sufficient resources to carry out the set of extension, research, and/or education activities that will lead to the desired outcomes. No more than two-thirds (2/3) of a project’s budget may be focused on a single component. In other words, no more than two-thirds of the project’s budget may be allocated to research (or education, or extension);

j) Integrated applications must include individuals on the project team with significant expertise in each component of the project (research, education, and/or extension); and

k) Integrated applications may be submitted by a single eligible institution where the expertise for all areas (research, education, and/or extension) are within the PD’s institution or multi-institutions where the expertise for one or two of the areas are from another institution(s).

See http://www.NIFA.usda.gov/funding/integrated/integrated.html for general information on NIFA integrated programs, including tips for writing integrated project proposals and an example of an integrated proposal.

Note: Joint Proposals should include a separate sub-award budget for each of the identified project partners, and Integrated Proposals as appropriate.

Single Institution, Joint and/or Integrated Project applications may have Partnering Entities who will be involved in conducting the proposed work. In addition to eligible joint or integrated project proposal partners, NIFA encourages collaborative efforts with Partnering Entities (State government, federal agencies/offices, and private sector organizations). However, the intent of the CBG is to enhance the research, teaching and extension capabilities of 1890 institutions as means for advancing student learning and scientific expertise development. Consequently, the
award of grant funds (i.e., sub-awards) is limited to the eligible applicant institutions and collaborating institutions who are participating in joint or integrated project proposals. While Partnering Entities may have a substantive role in a project, they may only receive reimbursement for non-salary minor expenses such as materials and supplies.

D. Responsible and Ethical Conduct of Research

The responsible and ethical conduct of research (RCR) is critical for excellence, as well as public trust, in science and engineering. Consequently, education in RCR is considered essential in the preparation of future scientists. In accordance with sections 2, 3, and 8 of 7 CFR Part 3022, institutions that conduct extramural research funded by USDA must foster an atmosphere conducive to research integrity, bear primary responsibility for prevention and detection of research misconduct and are to maintain and effectively communicate and train their staff regarding policies and procedures. In the event an application to NIFA results in an award, the AOR assures, through acceptance of the award that the institution will comply with the above requirements. Per award terms and conditions, grant recipients shall, upon request, make available to NIFA the policies and procedures as well as documentation to support the conduct of the training.

Note that the training referred to herein shall be either on-campus or the Collaborative Institutional Training Initiative (CITI) program for RCR (https://www.citiprogram.org/rcrpage.asp). The general content of the ethics training, at a minimum, will emphasize three key areas of research ethics: authorship and plagiarism, data and research integration and reporting misconduct. Each institution will be responsible for developing its own training system, as schools will need flexibility to develop training tailored to their specific student needs. Typically RCR education addresses the topics of: Data Acquisition and Management - collection, accuracy, security, access; Authorship and Publication; Peer Review; Mentor/Trainee Responsibilities; Collaboration; Conflict of Interest; Research Misconduct; Human Subject Research; and Use of Animals in Research.
PART III—ELIGIBILITY INFORMATION

A. Eligible Applicants

Applications may be submitted by 1890 Land-Grant Institutions, including Tuskegee University and West Virginia State University. The eligible institutions are:

Alabama A&M University  University of Arkansas-Pine Bluff
Delaware State University  Florida A&M University
Fort Valley State University  Kentucky State University
Alcorn State University  Southern University and A&M College
University of Maryland-Eastern Shore  Lincoln University (MO)
North Carolina A&T State University  Langston University
South Carolina State University  Tennessee State University
Prairie View A&M University  Virginia State University
Tuskegee University  West Virginia State University

A research foundation maintained by an eligible institution is also eligible to receive an award under this program.

Faculty and students receiving support for developmental activities or educational costs must be a citizen or national of the United States, as defined in Part VIII, E. - Definitions. Students must be enrolled at institutions that are eligible to receive CBG awards (see above paragraphs). Where student or faculty eligibility is claimed under 8 U.S.C. 1101(a)(22), documentary evidence from the Immigration and Naturalization Service as to such eligibility must be made available to NIFA upon request. An applicant’s failure to meet an eligibility criterion by the time of an application deadline may result in the application being excluded from consideration or, even though an application may be reviewed, will preclude NIFA from making an award.

Joint and integrated project award recipients may sub-award, as deemed appropriate, to organizations not eligible to apply provided such organizations are necessary to conduct a successful project. The subcontract must advance capacity building at the 1890 institution in the area of the submitted application.

B. Cost Sharing or Matching

NIFA does not require matching support for this program.
PART IV—APPLICATION AND SUBMISSION INFORMATION

A. Electronic Application Package
Only electronic applications may be submitted via Grants.gov to NIFA in response to this RFA. Applicants are advised to submit early to the Grants.gov system.

New Users of Grants.gov

Prior to preparing an application, it is suggested that the PD/PI first contact an Authorized Representative (AR)(also referred to as Authorized Organizational Representative or AOR) to determine if the organization is prepared to submit electronic applications through Grant.gov. If the organization is not prepared (e.g., the institution/organization is new to the electronic grant application process through Grants.gov), then the one-time registration process must be completed PRIOR to submitting an application. It can take as much as two weeks to complete the registration process so it is critical to begin as soon as possible. In such situations the AR should go to “Get Registered” on the Grants.gov left navigation bar (or go to http://www.grants.gov/applicants/get_registered.jsp) for information on registering the institution/organization with Grants.gov. A quick reference guide listing the steps is available as a 4-page PDF document at the following website: http://www.grants.gov/assets/Grants.govRegistrationBrochure.pdf. Item 2. below mentions the “NIFA Grants.gov Application Guide.” Part II.1. of the NIFA Grants.gov Application Guide contains additional explanatory language regarding the registration process.

Steps to Obtain Application Package Materials

The steps to access application materials are as follows:

1. In order to access, complete and submit applications, applicants must download and install a version of Adobe Reader compatible with Grants.gov. This software is essential to apply for NIFA Federal assistance awards. For basic system requirements and download instructions, please see http://www.grants.gov/help/download_software.jsp. To verify that you have a compatible version of Adobe Reader, Grants.gov established a test package that will assist you in making that determination. Grants.gov Adobe Versioning Test Package: http://www.grants.gov/applicants/AdobeVersioningTestOnly.jsp.

2. The application package must be obtained via Grants.gov, go to http://www.grants.gov, click on “Apply for Grants” in the left-hand column, click on “Step 1: Download a Grant Application Package and Instructions,” enter the funding opportunity number USDA-NIFA-CBGP-004108 in the appropriate box and click “Download Package.” From the search results, click “Download” to access the application package.

If assistance is needed to access the application package (e.g., downloading or navigating Adobe forms), or submitting the application then refer to resources available on the Grants.gov Web site first (http://www.grants.gov/). Grants.gov assistance is also available as follows:

Grants.gov customer support
1-800-518-4726 Toll-Free or 606-545-5035
Business Hours: 24 hours a day, 7 days a week. Closed on Federal Holidays.
Email: support@grants.gov

Grants.gov iPortal: Top 10 requested help topics (FAQs), Searchable knowledge base, self service ticketing and ticket status, and live web chat (available 7:00 A.M. - 9:00 P.M. ET). Get help now!

Please have the following information available when contacting Grants.gov, to help expedite your inquiry:

- Funding Opportunity Number (FON)
- Name of Agency You Are Applying To
- Specific Area of Concern


B. Content and Form of Application Submission

Electronic applications should be prepared following Parts V and VI of the document entitled “A Guide for Preparation and Submission of NIFA Applications via Grants.gov.” This guide is part of the corresponding application package (see Section A. of this Part). The following is additional information needed in order to prepare an application in response to this RFA. If there is discrepancy between the two documents, the information contained in this RFA is overriding.

Note the attachment requirements (e.g., portable document format) in Part III section 3. of the Guide. ANY PROPOSALS THAT ARE NON-COMPLIANT WITH THE REQUIREMENTS (i.e., content format, pdf file format, file name restrictions, and no password protected files) WILL BE EXCLUDED FROM NIFA REVIEW. Partial applications will be excluded from NIFA review. With documented prior approval, subsequent submissions of an application will be accepted until close of business on the closing date in the RFA.

If you do not own PDF-generating software, Grants.gov provides online tools to assist applicants. Users will find a link to “Convert Documents to PDF” on http://grants.gov/help/download_software.jsp#pdf_conversion_programs.
For any questions related to the preparation of an application please review the NIFA Grants.gov Application Guide and the applicable request for applications. If assistance is still needed for preparing application forms content, contact:

- Email: electronic@nifa.usda.gov
- Phone: 202-401-5048
- Business hours: Monday through Friday, 7:00 am – 5:00 pm Eastern Time, excluding Federal holidays.

1. **SF 424 R&R Cover Sheet**
   Information related to the questions on this form is dealt with in detail in Part V, 2. of the NIFA Grants.gov Application Guide.

2. **SF 424 R&R Project/Performance Site Location(s)**
   Information related to the questions on this form is dealt with in detail in Part V, 3. of the NIFA Grants.gov Application Guide.

3. **R&R Other Project Information Form**
   Information related to the questions on this form is dealt with in detail in Part V, 4. of the NIFA Grants.gov Application Guide.

   a. **Field 7. Project Summary/Abstract.** The summary should also include the relevance of the project to the goals of CBG. See Part V, 4.7 of NIFA Grants.gov Application Guide for further instructions and a link to a suggested template. Further, the summary must include:
      1. Relevant NIFA challenge area (see Part I, H.);
      2. Program Priority Area(s) (see Part I, D.);
      3. Degree level addressed for Education applications (see Part I, C.1.);
      4. Need Area addressed (see Part I, E.);
      5. **Discipline Code** (see Part I, G.);
      6. Anticipated impact on building and strengthening capacity of the 1890s in food and agricultural sciences as related to research, teaching and extension.

      The summary should not exceed **250 words excluding wording for items 1 through 6 listed above.** It must succinctly describe the objectives to be achieved and the activities to be undertaken in the project. It must also designate which Discipline(s) is supported by the project. If the applicant incorrectly designates a project within a funding allocation category or no designation is made, NIFA reserves the right to assign a discipline code.

      To ensure uniformity of all applications all applicants must use the format of the Project Summary/Abstract Template posted at [http://www.csrees.usda.gov/funding/1890_capacity/pdf/cgb_project_summary_temp.pdf](http://www.csrees.usda.gov/funding/1890_capacity/pdf/cgb_project_summary_temp.pdf)

   b. **Field 8. Project Narrative.**

      PLEASE NOTE: The Project Narrative must be submitted as an attached PDF file. The Project Narrative shall not exceed 20 pages of written text regardless of whether it is single or double spaced and up to five (5) additional pages for figures and tables. Please be advised
that table of contents and budget justification pages do not count against the page limitation. This maximum (25 pages) has been established to ensure fair and equitable competition. Prepare the application using standard size (8 1/2" x 11") paper, one (1)-inch margins, no type smaller than 12 point font, and 1.5 line spacing. Use an easily readable font face (e.g., Arial, Times New Roman). To facilitate application review and evaluation, the applicant is advised to include the following underlined wording as headings in the Project Narrative, followed by the applicant’s response for each item. Please keep in mind that following the formatting instruction and quality of the presentation of the whole application are a part of the evaluation criteria (see Part V, B).

For the integrated applications, Narrative Section must include the elements of a logic model detailing the activities, outputs, and outcomes of the proposed project. This information may be provided as a narrative or formatted into a logic model chart. The logic model planning process is a tool that should be used to develop your project before writing your proposal. Two (2) of the twenty five (25) pages are allowed to be used solely for logic model information. The PDs should select the appropriate location within the narrative section of their logic model. More information and resources related to the logic model planning process are provided at http://www.NIFA.usda.gov/about/strat_plan_logic_models.html. Keep in mind that the logic model is recommended for single and joint applications.

It is recommended that applicants utilize tables and graphs as a means of summarizing essential information supporting the justification or need for the proposed project. Tables and graphs will help PD(s) and reviewers clearly identify information deficits that may have an important bearing on the potential success of the proposed project. Tables should also be used to summarize the expected outcomes of each goal and the connection to NIFA goals/priorities and those of the PD(s) institution.

Examples of information sets that might be included in tables are as follows:

1. Teaching Applications
   a) For a teaching application with focus on student development, a table may depict essential information such as course names, learning objectives, learning environment enhancements (if applicable), and student characteristics. Such a table would help to summarize essential basic information leaving space in the narrative to describe and explain the teaching initiative.

   b) For a teaching application focusing on faculty development in the food and agricultural sciences, a table presenting descriptive information on current faculty abilities and capabilities, areas of limited or absent expertise, low numbers of tenure track faculty, etc.

   c) For a teaching application focusing on student recruitment, retention, and/or graduation a useful table could be one that depicts enrollment and graduation trends in the major(s), faculty to student ratio, number of available scholarship, internships, and job placement of majors/graduates.

   d) For a teaching application focusing on student experiential learning, a table could demonstrate the alignment of project objectives with specific activities of the learning experience.
2. Research applications
   a) For a research application, a table could be used to list the research question(s) and hypothesis (when it is relevant) and the expected contributions towards the goals and objectives of the proposal. The table may precede the objectives section and clearly support the project’s justification and be consistent with the aim, objectives, methodology, and analysis.

   b) For a research application, a case may be clearly made for the scientific merit of the proposed project. This might include clear justification of the scientific approach, support for the research question/hypotheses based on previously reported work by the PD(s) and others in the field, and a connection of the objectives to the overall aim or goal of the study and to the production of outcomes that connect with the NIFA goals and priorities.

3. Extension applications
   For an extension application, a case could be made for what is lacking or undeveloped in terms of extension program support systems, needed technology upgrades, or need improvements or applications for the development of information processing and delivery, program development, and how the project plans to address one or all of these.

4. Integrated Applications
   For an integrated project application, applicants could provide a sufficient description for why an integrated approach should be pursued in addressing the issue for which the project is targeted.

   These examples could be used as guidance when the narrative section is prepared.

   Note: The Project Narrative should be written with the Evaluation Criteria in mind (see Part V, B).

The Project Narrative for Education, Research or Extension projects must include all of the following:

A. Potential for Building and Strengthening Capacity and Advancing the Quality of Education, Research or Extension

   1. Significance of the Problem and Opportunity: Clearly state the specific instructional, research or extension problem or opportunity to be addressed and the connection(s) with the institutional goals or strategic plan or Plan of Work. Describe how and by whom the focus and scope of the project were determined.
2. **Project Justification:** Summarize the body of knowledge justifying the need for the proposed project using graphical and tabulated format when possible. Discuss how the project will be of value at the State, regional, national, or international level(s). Describe any ongoing or recently completed significant activities related to the proposed project for which previous funding was received under this program or other funding programs (including projects supported under NIFA’s 1890 Facilities Grants Program and 1890 Formula Programs).

The ability of a project to build capacity is an integral part of the application. Description of capacity building is different among institutions as well as between different projects within the individual institution. The section below is a description of what should be considered by applicants when writing the justification as well as the proposal as a whole.

**a. Teaching**

**Baseline information:** What is lacking or in need of development - to be built, built up, or built upon? Applicants should establish that the proposed teaching/educational enhancement activity is limited or not developed at the Institution or how it will contribute to human capacity development at the institution, or agriculture workforce.

**Building Process:** How will the proposed project build capacity? Applicant should clearly demonstrate how the proposed project will develop teaching/educational capabilities that result in the increased Institution’s ability to increase instructional resources, enhance teaching skill sets, improve learning environments, and/or recruit, retain, or graduate students beyond the funding of the grant.

**Instructional Reach:** What would be new or different in terms of teaching, student learning, or student educational engagement as a result of the proposed project initiatives? Applicant should demonstrate how the proposed project’s activities will transform the Institution’s ability to affect instruction and/or education in food and agricultural science disciplines.

**Impact Potential:** What is the change in capacity that will enable the Institution to build or strengthening food and agricultural sciences educational programs? Applicant should show how the expected changes represent increased ability or capacity to provide better instruction in food and agricultural science disciplines.

**b. Research**

**Baseline information:** What is lacking or in need of development - to be built, built up, or built upon? Applicants should establish that the proposed research initiatives or research capability is limited or not developed at the Institution.

**Building Process:** How will the proposed project build capacity? Applicant should clearly demonstrate how the proposed project will develop the proposed research initiatives or capacity so that it may result in increased Institution’s ability to conduct similar or new research activities beyond the funding of the grant.
Research Potential: What would be a new or different in terms of anticipated research capacity as a result of successful completion of proposed project? Applicant should demonstrate how the proposed project activities or capability will transform the Institution’s ability to contribute to food and agricultural sciences.

Impact Potential: What are the expected changes in capacity which will enable the Institution to enhance or add new research capacity? Applicant should show how those anticipated changes represent increased ability or capacity to conduct the food and agricultural science related research.

c. **Extension**

Baseline information: Applicant should establish that the proposed extension activity or capability is limited or does not exist at the institution. What capacity is lacking in a particular area or need to be enhanced or significantly improved?

Building Process: Applicant should clearly demonstrate how the proposed Extension initiative will change the institutional capacity in Extension to more effectively respond to current and/or emerging issues as well as the capacity to be more responsive to client’s needs, coordinate with appropriate academic units, and improve learning environments for training food and agricultural sciences majors.

Impact Potential: Applicant should show how the proposed initiative or activity will change the institution’s capacity to plan, implement, evaluate and/or report the impact of Extension programs. Address what the change in capacity will enable the Institution to do.

3. **Innovation:**

a. **Education applications** should clearly identify the discipline to be addressed, the core competencies that students will attain through new knowledge gained, the application’s creative approach to improving the quality of food and agricultural sciences education, solving an education problem, or advancing educational equity.

b. **Research applications** should describe the creative approach to improving the quality of food and agricultural sciences research, solving a scientific problem, or advancing a field of science, that address objective(s) that are of high importance at the 1890 institution, and identify potential results in institutional capacity building.

c. **Extension applications** should describe the creative approach to improving the communication with clientele, education programs as related to health, energy, environmental issues, youth, communities and small farm management and identify potential results in institutional capacity building.

d. **Multidisciplinary and/or Problem-based Focus**: Indicate how the teaching project is relevant to multiple disciplines in the food and agricultural sciences, or with other academic curricula. Indicate how the research or extension project is
multidisciplinary and interdisciplinary, and/or involves integrated (teaching, research and extension) activities. Identify the field of science and the objective(s) that are of high importance at the 1890 institutions to be addressed. Where partners are included in the proposal, provide a concise plan on how they will be managed and coordinated. Clearly identify potential results in 1890 institutional capacity building. Also, discuss whether the project may be adapted by, or serve as a model for other institutions.

B. Proposed Approach and Cooperative Linkages:

1. Objectives: Cite and discuss the specific project objectives to be accomplished and, for joint and integrated project proposals, identify the individual(s) responsible to accomplish each objective.

2. Plan of Operation and Methodology: Describe procedures for accomplishing the objectives of the project. Describe plans for management of the project to ensure its proper and efficient administration. Clearly identify and describe the metrics for evaluating successful project management. Describe the way in which resources and personnel will be used to conduct the project. Discuss extent to which students from the 1890 institutions will be involved in the Education, research or extension project. Identify roles and responsibilities for key project personnel.

3. Timetable: Provide a timetable for conducting the project. Identify all important project milestones and dates as they relate to project start-up, execution, evaluation, dissemination, and closeout. Identify limitations that may impact the timetable and provide strategies to avoid or compensate for the limitations. For joint or integrated project proposals, include the responsibilities of all partners in the Project Timetable.

4. Products, Results and Measurable Outcomes: Explain, including metrics, the expected products and results, outcome, and their potential impact on strengthening food and agricultural sciences education, research and extension in the United States. Metrics to assess products, outputs and outcomes are to be clearly delineated in the proposal; if the application has USDA cooperator(s), include clear identification of the role of the federal cooperator(s), as well as the other partners and the expected outcome(s) for the 1890 institution. (Part IV, B.).

Describe the economic, environmental or social gains resulting from the project. Describe the significant benefits gained. (See Definitions, ‘Outcomes’ Part VIII, E).

5. Evaluation Plans: Please keep in mind that program evaluation is simply a systematic method for collecting, analyzing, and using information to answer basic questions about proposed initiatives to build or strengthening capacity of the institution in a particular area in the food and agricultural sciences. Provide a methodology and implementation plan for evaluating the accomplishment of stated objectives, results and measurable outcomes during the project. Clearly identify the performance measure(s) by which the project’s success will be assessed. In the evaluation plan, indicate the criteria and corresponding weight of each to be used in the evaluation process. Describe any data to be collected and analyzed, and explain the methodology that will be used to determine the extent to which the needs
underlying the project are met. Indicate how the evaluation will determine whether and to what degree the project had an impact on education, research, and extension capacity. Identify those personnel who will be responsible for assessing project results and administering the project evaluation and reporting process and include a description of their expertise or credentials. The evaluation plan is a crucial component of the application because of the increase emphasis on accountability mandated by Congress.

The outline sections of the evaluation plan may be used as a guide when developing an evaluation plan to monitor building and strengthening the capacity of the institutions:

- **Section I:** A description of the evaluation framework which specifies what you want to evaluate, what questions are to be addressed in the evaluation, and the timeframe for conducting the evaluation.
- **Section II:** A description of the program implementation objectives.
- **Section III:** A description of the program outcome objectives, performance measures and impact.
- **Section IV:** Procedures for managing and monitoring the evaluation and reporting.

6. **Dissemination Plans:** The application must document how project accomplishments (products, results and impacts, etc.) will be disseminated to the broadest extent throughout the academic or scientific community and to policy makers and the public. Discuss the institution’s commitment to disseminate project results and products. Identify target audiences and explain methods of communication.

7. **Partnerships and Collaborative Efforts:** Explain how the project will maximize partnership and collaborative efforts to strengthen food and agricultural sciences education, research and extension (e.g., involvement of faculty in related disciplines at the same institution, joint projects with other educational institutions, or expand cooperative activities with business or industry) at the 1890 institution. As appropriate, clearly describe the collaborative management plan to assure successful outcomes towards project goals. (See Part IV, B. c. – Field 11 – Other Attachments.)

    Provide evidence, via letters from the parties involved in the partnership or collaborative arrangement indicating the roles, responsibilities and anticipated outcomes from each member of the partnership. NOTE: Partnership and Collaborative Letters must be signed by the Authorized Representatives (ARs).

C. **Institutional Capability:**

1. **Institutional Resources:** Document that necessary institutional resources (administrative, facilities, equipment, and/or materials), and other appropriate resources, will be made available to the project. Demonstrate how the institutional resources to be made available will be adequate to carry out the activities of the project when combined with any support requested from USDA.
2. **Continuation Plans:** Describe the likelihood of, or specific plans for, continuation or expansion of the project beyond the period of USDA support. You must indicate if eventual self-support is built into the project and if plans are being made to institutionalize the program if it meets with success.

D. **Roles and Project Responsibility of Key personnel:**

Clearly identify the roles and project responsibilities of each key person and outcomes for each member, describes the management plan to assure successful project outcomes associated with the project.

c. **Field 11 Other Attachments (PDF Attachment)**

1. **Response to Previous Review.** This requirement only applies to "Resubmitted Applications" (Part II, B.2.). Applicants must respond to the previous review panel summary (two pages only) titled "RESPONSE TO PREVIOUS REVIEW." This section is not applicable to extension or integrated applications.

2. **Accomplishment report of previously funded projects.** Only applicants (project directors) with an active or previously received 1890 capacity building grant award must submit no more than a one (1) page accomplishment report. The report should include impacts and outcomes of the funded project and briefly describe how the new proposal is related to the outcomes from previous award. A copy of the CRIS report should be included in the Appendix. See field 11 – Other Attachments.

3. **Cooperative Arrangement Letter(s).** FY 2013 CBG applicants are not required but are encouraged to have collaboration with USDA. If the application has a USDA collaborator(s), documentation of USDA - 1890 Institution collaboration must be provided in the application; Partnership and Collaborative Efforts (Part IV, B.). The collaboration should advance capacity building at the 1890 institution in the area of the submitted application. Provide a letter (PDF format) from the USDA cooperating office and **signed by the USDA Unit Director (supervisor of the USDA collaborating staff person) and the USDA collaborator (i.e., staff person who will work on the project)** that clearly identifies the role and expected outcomes of their participation. Identify the person(s) at each agency or office who will serve as liaison or technical (scientists, educator, etc.) contact for the project and provide their phone number and email address.

**NOTE:**

- Because of potential conflicts of interest, no NIFA cooperators are permitted.
- Keep in mind that collaborative efforts with USDA will not be considered in the review process of the application.

4. **Institution/School/Department Goals and Objectives.** Include an institutional letter indicating that the application is within the strategic plan of the institution in food and agricultural sciences, school or the department and that funding will potentially build or strengthening the capacity of your institution, school or department. The letter must be signed by the Dean, Agricultural Research Director, or Extension Administrator (not more than 1 page in PDF format).
5. **Collaborative Arrangements.** If it is necessary to enter into formal consulting or collaborative arrangements with others, such arrangements should be fully explained and justified. If the consultant(s) or collaborator(s) are known at the time of the application, a vitae or resume should be provided. In addition, evidence (e.g., letters of support) should be provided that the collaborators involved have agreed to render these services. The applicant also will be required to provide additional information on consultants and collaborators in the budget portion of the application [such as rate of pay, letters of commitment and curriculum vita(ae)]. (PDF Attachment. No Page Limit.)

**NOTE:** Letters from consultant(s) and/or collaborator(s) must be signed by the Authorized Representatives (ARs).

4. **R&R Senior/Key Person Profile (Expanded)**

Information related to the questions on this form is dealt with in detail in Part V, 5. of the NIFA Grants.gov Application Guide. Part V, 5. of the NIFA Grants.gov Application Guide includes information about the individuals for which a Senior/Key Person Profile must be completed, and details about the Biographical Sketch and the Current and Pending Support including a link to a suggested template for the Current and Pending Support. Please include annual base salary for all personnel listed under Senior/Key Person. On the Current and pending Support form, the time committed to this project should not be less than the salary requested on the budget form. Please make sure that the application proposal is listed and that all projects, including this project, do not total over 100% commitment time.

The biographical sketch for Key Personnel must be submitted as an attached PDF file. Each vita may not exceed two (2) pages. Applicant must attach biographical sketch as PDF files for each of the Key Personnel.

Also, **you must attach** ‘Current and Pending Support’ information (see NIFA Grants.gov Application Guide item 4.3, for guidelines and information format) for each senior/key person identified above.

**Note:** Even if no other funding is currently reported under the ‘Active’ section of this attachment, you must still list information for this grant application under the ‘Pending’ section of this attachment for each senior/key person identified above. Total time commitment (Current and Pending) cannot exceed 100% at any given time. The time commitment for this project should not be less than the time for which salary compensation is requested. Further, all projects must include time commitments.

5. **R&R Personal Data** – As noted in Part V, 6. of the NIFA Grants.gov Application Guide, the submission of this information is voluntary and is not a precondition of award.

6. **R&R Budget**

Information related to the questions on this form is dealt with in detail in Part V, 7. of the NIFA Grants.gov Application Guide.

Budget Narrative: **This section is not a part of the Narrative Section.**
The Budget Narrative (no more than 5 pages) must be attached as PDF file to the R&R Budget Form-Section F-K.

The Narrative must contain two (2) parts and must be labeled as subheadings:

- **Justification, (including cost details)** of budget line-items
- **Cost-effectiveness** of overall budget

**Justification:** Discuss how the budget specifically supports the proposed project activities. Explain how budget line-items, such as professional or technical staff time, salary, travel, equipment, etc., are necessary and reasonable to achieve project objectives. All expenditures for the applicant and each collaborator must be itemized and justified to indicate relevant capacity building at the 1890 institution(s). If the proposal addresses more than one (1) Need Area (see Part I, E.), applicants should include estimates of the proportion of the funds requested from USDA that will support each area. A justification is required for all travel related to the proposed project. **All costs must be fully explained and justified.**

**Reasonable travel expenses to attend the Project Director’s Conference and/or other relevant meetings may be included in the application's budget under travel expenses.**

**Cost-effectiveness:** Discuss the project's cost-effectiveness. Show how the project maximizes the use of limited resources, optimizes educational value for the dollar, achieves economies of scale, or leverages additional funds. For example, discuss how the acquisition of diagnostic equipment will be cheaper in the long run than paying a company to run the samples or how an initiative has the potential to generate a critical mass of expertise and activity focused on a Need Area, or to promote coalition building that could lead to future ventures.

7. **SF 424 (R&R) Sub-award Budget Attachment** (Only required if submitting a Joint or Integrated Project Proposal, as deemed appropriate)

Joint and Integrated Project Proposals, as deemed appropriate, must include separate subcontract budgets (R&R Sub-award Budget Attachment Form), budget narratives, and letters of support for each of the identified project partners which are **signed by the Authorized Representatives (ARs) of the subcontracting organizations.**

8. **Supplemental Information Form**

Information related to the questions on this form is dealt with in detail in Part VI, 1. of the NIFA Grants.gov Application Guide.

a. **Field 2. Program to which you are applying.** Enter Program Code Name “**1890 CBG Program**” and Program Code as follows:

- Research Program Code = “EQ”;
- Teaching Program Code = “EP”; or
- Extension Program Code = “EWE”

**(NOTE: Program Codes must be ALL UPPERCASE)**

b. **Field 7. Key Words.** Applicants should enter the most relevant words to describe the proposed project. In addition, applicants should include keywords that clearly designate which of the Challenge areas; Program Priority Areas, Need Areas, and Discipline(s) are addressed in the application.
c. **Field 8. Conflict of Interest List.** See Part VI, 1.8 of the NIFA Grants.gov Application Guide for further instructions and a link to a suggested template.

**C. Submission Dates and Times**

Instructions for submitting an application are included in Part IV, Section 1.9 of the NIFA Grants.gov Application Guide.

Applications must be received by Grants.gov by COB on **March 5, 2013** (5:00 p.m. Eastern Time). Applications received after this deadline will normally not be considered for funding.

Applicants who have problems with the submission of an application to Grants.gov are encouraged to FIRST contact the Grants.gov Help Desk to resolve any problems. Keep a record of any such correspondence. See Part IV. A. for Grants.gov contact information.

Correspondence regarding submitted applications will be sent using e-mail. Therefore, applicants are strongly encouraged to provide accurate e-mail addresses, where designated, on the SF-424 R&R Application for Federal Assistance.

If the AR has not received correspondence from NIFA regarding a submitted application within 30 days of the established deadline, please contact the Program Contact identified in Part VII of the applicable RFA and request the proposal number assigned to the application. Failure to do so may result in the application not being considered for funding by the peer review panel. Once the application has been assigned a proposal number, this number should be cited on all future correspondence.

**D. Funding Restrictions**

With prior approval, in accordance with the terms & conditions of the award, some grant funds may be used for minor alterations or repairs deemed necessary to retrofit existing teaching, research or extension spaces in order to carry out a funded project. However, requests to use grant funds for such purposes must demonstrate that the alterations or repairs are incidental to the major purpose for which a grant is issued.

Section 720 of the Consolidated and Further Continuing Appropriations Act, 2012 (P.L. 112-55) limits indirect costs to 30 percent of the total Federal funds provided under each award. Therefore, when preparing budgets, applicants should limit their requests for recovery of indirect costs to the lesser of their institution’s official negotiated indirect cost rate or the equivalent of 30 percent of total Federal funds awarded.

This same indirect cost limitation applies to subcontracts.

**E. Other Submission Requirements**

The applicant should follow the submission requirements noted in Part IV, section 1.9 in the document entitled “NIFA Grants.gov Application Guide.”
For information about the status of a submitted application, see Part III., section 6. of the NIFA Grants.gov Application Guide.
PART V—APPLICATION REVIEW REQUIREMENTS

A. General

Each application will be evaluated in a 2-part process. First, each application will be screened to ensure that it meets the administrative requirements as set forth in this RFA. Second, applications that meet these requirements will be technically evaluated by a review panel. Two (2) separate and independent panels [one (1) for teaching/extension and one (1) for research] will be used to review the applications that met the RFA requirements. Each application will be reviewed by three panelists and an Ad hoc reviewer. These panelists’ will present their comments and recommendation to full panel. The final recommendation will be made based on the full panel’s consent.

Reviewers in each panel will be selected based upon training and experience in relevant scientific, research or extension, or education fields, taking into account the following factors: (a) the need to include experts from various areas of specialization within relevant scientific, education, or extension fields as well as the extent to which experts are engaged in relevant research, education, or extension activities; (b) the need to include other experts (e.g., producers, range or forest managers/operators, and consumers) who can assess relevance of the applications to targeted audiences and to program needs; (c) the need to include experts from a variety of organizational types (e.g., colleges, universities; including 1890 institutions, industry, state and Federal agencies, private profit and non-profit organizations) and geographic locations; (d) the need to maintain a balanced composition of reviewers with regard to minority and female representation and an equitable age distribution; and (e) the need to include reviewers who can judge the usefulness to producers and the general public of each application.

B. Evaluation Criteria

The evaluation criteria below will be used in reviewing applications submitted in response to this RFA:

The maximum score a proposal can receive is 100 points. The scores are distributed between 5 categories identified below.

1) Potential for Building and Strengthening capacity and Advancing the Quality of Education, Research or Extension (50 points).

This criterion is used to assess the likelihood that the project will have an impact on and advance the quality of food and agricultural sciences by strengthening institutional capacities to meet clearly delineated needs in the 1890 institutional objectives of high importance, or the strategic goals or the Plan of Work. Elements considered include institutional goals in food and agricultural sciences, NIFA/USDA’s Strategic Goals and/or Objectives, identification of a problem or opportunity to be addressed as one (1) of the Program Priority Areas, justification for the project, innovation, advancing educational equity, multidisciplinary and/or problem-based focus, and potential for adoption by other institutions, the institution's capability to perform the project and the degree to which the project will strengthen its teaching, research or extension capacity. Elements include the institution's commitment to the project, the adequacy of
institutional resources (administrative, facilities, equipment, and/or materials) available to carry out the project, potential for academic, research or extension enhancement, and plans for project continuation or expansion beyond the period of USDA support. The points will be distributed as follow:

**Impact on building and strengthening capacity- (25 points), Continuation plans – (5 points), Innovations – (10 points), Products and results – (5 points), and Institutional commitment – (5 points).**

2. **Overall Approach, Cooperative Linkages and Quality of the Proposal (30 points).**

This criterion relates to the soundness of the proposed approach including: objectives that show a clear connection to the institutional goals or strategic plan or Plan of Work; methodology, plan of operation, timetable that describe limitations and strategies to avoid or compensate for identified limitations; for joint project proposals a timetable that includes the responsibilities of all partners in the project timetable; expected products and results; an evaluation plan that includes performance measures to assess project success; and dissemination plans. For Teaching, Research and Extension proposals, emphasis is placed on the identified core competencies that students and/or clients will attain through new knowledge, the quality of educational or research support provided to the applicant institution through its partnerships and collaborative initiatives, and on the potential cooperative linkages likely to evolve as a result of this project clearly identifying the key personnel responsibilities for products, outputs, outcomes and potential impacts. Metrics to assess products, outputs and outcomes are to be clearly delineated in the proposal include clear identification of the role of the partners and the outcomes for the 1890 institution. Participation of USDA agency cooperator is optional; however, if the application included USDA cooperator(s), his/her role must clearly identified.

Overall quality of the proposal relates to the degree to which the proposal complies with the application guidelines. The proposal is enhanced by its adherence to instructions (table of contents, organization, pagination, margin and font size, the specified page limitation, appendices, etc.); accuracy of forms; clarity of budget narrative; well prepared vitae for all key personnel associated with the project; and presentation. How effectively ideas are presented, clearly articulated, and thoroughly explained, the presence of all required forms, etc.

The points will be distributed as follow:

**Proposed approach – (10 points), Evaluation – (5 points), Dissemination – (5 points), Partnership and collaborative efforts – (5 points), and Overall quality – (5 points).**

3. **Personnel Resources (10 points).**

This criterion relates to the adequacy of the number and qualifications of key persons who will develop and carry out the project, and the qualifications of project personnel who will manage the successful attainment of the proposed outcomes, provide for the assessment of project results and impacts and dissemination of these findings. Proposals should clearly identify the role of all key personnel, responsibilities and outcomes for each member, and describes the management plan to assure successful project outcomes. Qualified and sufficient personnel are critical for meeting the capacity building objective of a project.
4. **Budget and Cost-Effectiveness (10 points).**

This criterion relates to the extent to which the total budget adequately supports the project and is cost effective. Elements considered include the necessity and reasonableness of costs to carry out project activities and achieve project objectives; the appropriateness of budget allocations between the applicant and any collaborating institution(s); the adequacy of time committed to the project by key project personnel; and the degree to which the project maximizes the use of limited resources, optimizes educational value for the dollar, achieves economies of scale, leverages additional funds, and focuses expertise and activity on high-priority Education, Extension or Research Need Areas based on the 1890 institutional objectives or strategic plan or Plan of Work. The points will be distributed as follow:

**Budget (including justification) – (5 points), and Cost Effectiveness – (5 points).**

Please keep these evaluation criteria in mind throughout the process of preparing your application. In many cases, the difference between the funded and the unfunded grant is a couple of points.

C. **Conflicts of Interest and Confidentiality**

During the peer evaluation process, extreme care will be taken to prevent any actual or perceived conflicts of interest that may impact review or evaluation. For the purpose of determining conflicts of interest, the academic and administrative autonomy of an institution shall be determined by reference to the current Higher Education Directory, published by Higher Education Publications, Inc., 1801 Robert Fulton Drive, Suite 340, Reston, Virginia 20191. Phone: (888) 349-7715. Web site: [http://www.hepinc.com](http://www.hepinc.com).

Names of submitting institutions and individuals, as well as application content and peer evaluations, will be kept confidential, except to those involved in the review process, to the extent permitted by law. In addition, the identities of peer reviewers will remain confidential throughout the entire review process. Therefore, the names of the reviewers will not be released to applicants.

D. **Organizational Management Information**

Specific management information relating to an applicant shall be submitted on a one time basis, with updates on an as needed basis, as part of the responsibility determination prior to the award of a grant identified under this RFA, if such information has not been provided previously under this or another NIFA program. NIFA will provide copies of forms recommended for use in fulfilling these requirements as part of the preaward process. Although an applicant may be eligible based on its status as one of these entities, there are factors which may exclude an applicant from receiving Federal financial and nonfinancial assistance and benefits under this program (e.g., debarment or suspension of an individual involved or a determination that an applicant is not responsible based on submitted organizational management information).
PART VI—AWARD ADMINISTRATION

A. General

Within the limit of funds available for such purpose, the awarding official of NIFA shall make grants to those responsible, eligible applicants whose applications are judged most meritorious under the procedures set forth in this RFA. The date specified by the awarding official of NIFA as the effective date of the grant shall be no later than September 30 of the Federal fiscal year in which the project is approved for support and funds are appropriated for such purpose, unless otherwise permitted by law. It should be noted that the project need not be initiated on the grant effective date, but as soon thereafter as practical so that project goals may be attained within the funded project period. All funds granted by NIFA under this RFA shall be expended solely for the purpose for which the funds are granted in accordance with the approved application and budget, the regulations, the terms and conditions of the award, the applicable Federal cost principles, the Department's assistance regulations (parts 3015 and 3019 of 7 CFR), and the NIFA General Awards Administration Provisions at 7 CFR part 3430, subparts A through E.

B. Award Notice

The award document will provide pertinent instructions and information including, at a minimum, the following:

(1) Legal name and address of performing organization or institution to whom the Director has issued an award under the terms of this request for applications;

(2) Title of project;

(3) Name(s) and institution(s) of PDs chosen to direct and control approved activities;

(4) Identifying award number assigned by the Department;

(5) Project period, specifying the amount of time the Department intends to support the project without requiring recompetition for funds;

(6) Total amount of Departmental financial assistance approved by the Director during the project period;

(7) Legal authority(ies) under which the award is issued;

(8) Appropriate Catalog of Federal Domestic Assistance (CFDA) number;

(9) Applicable award terms and conditions (see http://www.nifa.usda.gov/business/awards/awardterms.html to view NIFA award terms and conditions);
(10) Approved budget plan for categorizing allocable project funds to accomplish the stated purpose of the award; and

(11) Other information or provisions deemed necessary by NIFA to carry out its respective awarding activities or to accomplish the purpose of a particular award.

C. Administrative and National Policy Requirements

Several Federal statutes and regulations apply to grant applications considered for review and to project grants awarded under this program. These include, but are not limited to:


7 CFR Part 15, subpart A—USDA implementation of Title VI of the Civil Rights Act of 1964, as amended.


7 CFR Part 3017—USDA implementation of Governmentwide Debarment and Suspension (Nonprocurement).

7 CFR Part 3018—USDA implementation of Restrictions on Lobbying. Imposes prohibitions and requirements for disclosure and certification related to lobbying on recipients of Federal contracts, grants, cooperative agreements, and loans.
D. Expected Program Outputs and Reporting Requirements

Grantees are to submit initial project information and annual and summary reports to NIFA’s electronic, Web-based inventory system that facilitates both grantee submissions of project outcomes and public access to information on Federally-funded projects. The details of these reporting requirements are included in the award terms and conditions. Details of annual and final technical reporting requirements also are included in the award terms and conditions.

1. Project Directors Conference

During the tenure of a grant, Project Directors must attend at least one (1) National Project Directors’ meeting, if offered or indicated by NIFA. The purpose of the meeting will be to discuss project and grant management, opportunities for collaborative efforts, future directions for research and education reform, and opportunities to enhance dissemination of exemplary end products/results.
2. Annual Performance Report

An Annual Performance Report must be submitted to the USDA program contact person within 90 days after the completion of the first year of the project, and annually thereafter during the life of the grant. The Annual Performance Reports should include **a clear and concise impact statement**, a summary of the overall progress toward project objectives, summary of outputs, outcomes/impacts, publications, number of participants (e.g., students, farmers, stakeholders, etc) target audiences, project modifications, the next year's activities, and any other information that is pertinent to the ongoing project or which may be specified in the terms and conditions of the award. Please see the Appendix for Project Evaluation and Reporting for suggested metrics that may be relevant to your project. Annual Performance Reports are to be submitted through the NIFA’s electronic, Web-based inventory system that facilitates both grantee submissions of project outcomes and public access to information on Federally-funded projects.

3. Final Performance Report

A Final Performance Report must be submitted to the USDA program contact person within 90 days of the expiration date of the project. The expiration date is specified in the award documents and modifications thereto, if any. Generally, the Final Performance Report should be a summary of the completed project, including: a review of project objectives and accomplishments; a description of any products and outcomes resulting from the project; activities undertaken to disseminate products and outcomes; partnerships and collaborative ventures that resulted from the project; future initiatives that are planned as a result of the project; the impact of the project on the Project Director(s), students, the departments, the institution, and the food and agricultural sciences higher education system; and data on project personnel and beneficiaries. The report must document how project accomplishments (products, results and impacts, etc.) have been published or otherwise disseminated to the broadest extent throughout the academic and scientific community. **Products such as CDs, publication reprints, pamphlet, books or book chapters, should be mailed directly to the Agency Contact in Part VII of this RFA.**

**Final Performance Report must include the following information as applicable:**

1) A comparison of actual project accomplishments with the project's original goals;
2) A description of any products and outcomes resulting from the project;
3) A description of partnerships and collaborative ventures;
4) Briefly describe planned future initiatives as related to the continuation of the terminated project;
5) Impacts affecting Project Director(s), students, institution, and the food and agricultural sciences higher education or employment system.

The final report must include the overall measurable impact of the terminated project as related to School, University and clientele. **Please see the Appendix for Project Evaluation and Reporting for suggested metrics that may be relevant to your project.** To strengthen the termination report as well as the impact statement, the final report should address the following activity areas as applicable:

a) Education and/or training courses, conferences, meetings, and workshops conducted to disseminate the results of the project. Number of attendees present at each event.
Number of students (Graduate, Undergraduate, other (Middle and High School) who were involved in different activities, fund expended on such activities and fund expended on instruments.

b) Report any developed CD-ROMs, videotapes, brochures, fliers, or other media (Web Sites, Electronic Curriculum, and Manuals) and briefly describe the impact of these materials on the target audience(s).

c) Indicate if the project resulted in the development of any new technologies, applications, new patents or Cooperative Research and Development Agreements (CRADAs) and provide brief information.

d) Include any additional funds leveraged from other sources (public, private, or industry partners) as a result of your project and list the sources and the amount of funds leveraged.

e) How did the project integrate research, teaching and extension? If there was integration, was it useful in building the capacity of the institution, school, department, or program?

f) The main goal of the 1890 institution capacity building program is to build and strengthen the research, teaching, and extension capacity of 1890 institutions, please feel free to suggest change(s) that would enhance the effectiveness of the 1890 CBG program.

4. Other Reports

Grantees should be aware that NIFA may, as a part of its own program evaluation activities, carry out in-depth evaluations of assisted activities. Thus, grantees should be prepared to cooperate with NIFA personnel, or persons retained by NIFA, in evaluating the institutional context and the impact of any supported project. Grantees may be asked to provide general information on any students and faculty supported, in whole or in part, by a grant awarded under this program; information that may be requested includes, but is not limited to, standardized academic achievement test scores, grade point average, academic standing, career patterns, age, race/ethnicity, gender, citizenship, and disability.
PART VII—AGENCY CONTACT

Applicants and other interested parties are encouraged to contact:

Edwin Lewis
National Program Leader
Division of Community and Education, Institute of Youth, Family, and Community
Location: 4341 Waterfront Centre
Full Address and Directions
Phone: (202) 690 - 4565
Fax: (202) 720 - 2030
Email: elewis@nifa.usda.gov
PART VIII—OTHER INFORMATION

A. Access to Review Information

Copies of reviews, not including the identity of reviewers, and a summary of the panel comments will be sent to the applicant PD after the review process has been completed.

B. Use of Funds; Changes

1. Delegation of Fiscal Responsibility

Unless the terms and conditions of the award state otherwise, the awardee may not in whole or in part delegate or transfer to another person, institution, or organization the responsibility for use or expenditure of award funds.

2. Changes in Project Plans

a. The permissible changes by the awardee, PD(s), or other key project personnel in the approved project shall be limited to changes in methodology, techniques, or other similar aspects of the project to expedite achievement of the project's approved goals. If the awardee or the PD(s) is uncertain as to whether a change complies with this provision, the question must be referred to the Authorized Departmental Officer (ADO) for a final determination. The ADO is the signatory of the award document, not the program contact.

b. Changes in approved goals or objectives shall be requested by the awardee and approved in writing by the ADO prior to effecting such changes. In no event shall requests for such changes be approved which are outside the scope of the original approved project.

c. Changes in approved project leadership or the replacement or reassignment of other key project personnel shall be requested by the awardee and approved in writing by the ADO prior to effecting such changes.

d. Transfers of actual performance of the substantive programmatic work in whole or in part and provisions for payment of funds, whether or not Federal funds are involved, shall be requested by the awardee and approved in writing by the ADO prior to effecting such transfers, unless prescribed otherwise in the terms and conditions of the award.

e. The project period may be extended by NIFA without additional financial support, for such additional period(s) as the ADO determines may be necessary to complete or fulfill the purposes of an approved project, but in no case shall the total project period exceed any applicable statutory limit or expiring appropriation limitation. Any extension of time shall be conditioned upon prior request by the awardee and approval in writing by the ADO, unless prescribed otherwise in the terms and conditions of award.

f. Changes in Approved Budget: Unless stated otherwise in the terms and conditions of award, changes in an approved budget must be requested by the awardee and approved in writing by the
ADO prior to instituting such changes, if the revision will involve transfers or expenditures of amounts requiring prior approval as set forth in the applicable Federal cost principles, Departmental regulations, or award.

C. Confidential Aspects of Applications and Awards

When an application results in an award, it becomes a part of the record of NIFA transactions, available to the public upon specific request. Information that the Secretary determines to be of a confidential, privileged, or proprietary nature will be held in confidence to the extent permitted by law. Therefore, any information that the applicant wishes to have considered as confidential, privileged, or proprietary should be clearly marked within the application. The original copy of an application that does not result in an award will be retained by the Agency for a period of three years. Other copies will be destroyed. Such an application will be released only with the consent of the applicant or to the extent required by law. An application may be withdrawn at any time prior to the final action thereon.

D. Regulatory Information

For the reasons set forth in the final Rule related Notice to 7 CFR part 3015, subpart V (48 FR 29114, June 24, 1983), this program is excluded from the scope of the Executive Order 12372 which requires intergovernmental consultation with State and local officials. Under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. chapter 35), the collection of information requirements contained in this Notice have been approved under OMB Document No. 0524-0039.

E. Definitions

Please refer to 7 CFR 3430, Competitive and Noncompetitive Non-formula Grant Programs--General Grant Administrative Provisions, for applicable definitions for this NIFA grant program.

In addition, the following definitions apply specifically to this RFA:

Capacity Building means enhancing and strengthening the quality and depth of an institution’s research, academic and/or extension programs as evidenced by its: faculty expertise, scientific and technical resources, research environment, curriculum, student experiential learning opportunities, scientific instrumentation, library resources, academic standing and racial, ethnic, or gender diversity of its faculty and student body, faculty and student recruitment and retention programs, extension delivery systems, organizational structures and reward systems for attracting and retaining first-rate research faculty or students at the graduate and post-doctorate levels.

Educational Need Area (also see Teaching project grant) means the specific area(s) of educational focus identified in the annual Request for Applications and addressed by the applicant’s proposal. This is a grant in support of a project that addresses one (1) or more of the identified educational need areas or specific subject matter/emphasis areas derived from statutory language authorizing the grants program related to strengthening teaching programs including, but not limited to, such initiatives as: curricula design and materials development, faculty preparation and enhancement for teaching, instruction delivery systems, scientific instrumentation for teaching, student experiential learning, and student recruitment and retention.
Eligible participant means, for purposes of the Program Need Areas “Faculty Preparation and Enhancement for Teaching” and “Student Recruitment and Retention”, an individual who is a citizen or national of the United States as defined in this section.

Extension application means an application that addresses one (1) or more of the Extension Need Areas or specific subject matter/emphasis areas identified in the annual Request for Applications related to strengthening Extension programs including, but not limited to, such initiatives as: Extension program development support systems, technology upgrades, Extension delivery/methodology, and other creative projects designed to provide needed enhancement of the Institutions Extension Capacity.

Extension capacity means the quality and depth of an institution's Extension infrastructure as evidenced by its: curriculum, instructional delivery systems, Extension faculty, volunteer and other program support systems, use of technology in program delivery, library resources and service to underserved populations.

Food and agricultural sciences means basic, applied, and developmental research, extension, and teaching activities in the food and fiber, agricultural, renewable natural resources, forestry, and physical and social sciences, in the broadest sense of these terms, including but not limited to, activities relating to the production, processing, marketing, distribution, conservation, utilization, consumption, research, and development of food and agriculturally related products and services, and inclusive of programs in agriculture, natural resources, aquaculture, forestry, veterinary medicine, family and consumer sciences (previously known as home economics), rural human ecology, rural economic, community, or business development, and closely allied disciplines.

Joint project application means a proposal for a project, which will involve the applicant 1890 Institution and one (1) or more other colleges, universities, community colleges, junior colleges, or other institutions, each of which will assume a major role in the conduct of the proposed project, and for which the applicant institution will transfer no more than one-half (1/2) of the awarded funds to the other institutions participating in the project. Only the applicant institution must meet the definition of “1890 Institution” as specified in this section; the other institutions participating in a joint project proposal are not required to meet the definition of “college” or “university” as specified in this section. (See Part II, C.2.)

Outcomes means specific, measurable project results and benefits that, when assessed and reported, indicate the project’s plan of operation has been achieved. Measurable outcomes include:

a) Results are intended or unintended consequences of the project, e.g., “...additional course materials now available online to reinforce student learning during non-classroom hours”;

b) Products may be actual items or services acquired with funds, e.g., “…mechanisms and content to transition existing course(s) or elements of course(s) for Web-based access” or “created new and innovative prevention and intervention initiatives”; and

c) Impacts are a measure of the results by comparing what might have happened in the absence of the funded project.

Partnering Entity means a unit of State government, federal agency/office, or private sector organization that may only receive reimbursement for non-salary minor expenses such as
materials and supplies but is nevertheless partnered with, and committed to, assisting an eligible institution in building capacity in teaching or research at the applicant 1890 institution.

**Plan of Operation** means a detailed, step-by-step description of how the applicant intends to accomplish the project’s outcomes. At a minimum, the plan should include a timetable indicating how outcomes are achieved, a description of resources to be used or acquired, and the responsibilities expected of all project personnel.

**Research capacity** means the quality and depth of an institution's research infrastructure as evidenced by its: faculty expertise in the natural or social sciences, scientific and technical resources, research environment, library resources, and organizational structures and reward systems for attracting and retaining first-rate research faculty or students at the graduate and post-doctorate levels.

**Research application** means an application that addresses one (1) or more of the Research Need Areas or specific subject matter/emphasis areas identified in the annual Request for Applications related to strengthening research programs including, but not limited to, such initiatives as: studies and experimentation in food and agricultural sciences, centralized research support systems, technology delivery systems, and other creative projects designed to provide needed enhancement of the Nation's food and agricultural research system.

**Single Institution** any application with a single budget with no Subaward budget attachment.

**Teaching** means formal classroom instruction, laboratory instruction, and practicum experience in the food and agricultural sciences and matters related thereto (such as faculty development, student recruitment and services, curriculum development, instructional materials and equipment, and innovative teaching methodologies) conducted by colleges and universities offering baccalaureate or higher degrees.

**Teaching capacity** means the quality and depth of an institution's academic programs infrastructure as evidenced by its: curriculum, teaching faculty, instructional delivery systems, student experiential learning opportunities, scientific instrumentation for teaching, library resources, academic standing and racial, ethnic, or gender diversity of its faculty and student body as well as faculty and student recruitment and retention programs provided by a college or university in order to achieve maximum results in the development of scientific and professional expertise for the Nation's food and agricultural system.

**Teaching application** (also see Educational Need Area) means an application that addresses one (1) or more of the Educational Need Areas or specific subject matter/emphasis areas identified in the annual Request for Applications and addressed by the applicant’s proposal. The areas are derived from statutory language authorizing the grants program related to strengthening teaching programs including, but not limited to, such initiatives as: curricula design and materials development, faculty preparation and enhancement for teaching, instruction delivery systems, scientific instrumentation for teaching, student experiential learning, and student recruitment and retention.

**USDA agency cooperator** means any agency or office of the Department which has reviewed and endorsed an applicant's request for support, and indicates a willingness to make available non-monetary resources or technical assistance throughout the life of a project to ensure the accomplishment of the objectives of a grant awarded under this program.

**NOTE:** Because of potential conflicts of interest, no NIFA cooperators are permitted.
USDA and NIFA Strategic Plans: Go to [http://web-dev.csrees.usda.gov/about/offices/pdfs/csrees_strategic_plan.pdf](http://web-dev.csrees.usda.gov/about/offices/pdfs/csrees_strategic_plan.pdf) to view the NIFA Strategic Plan. Go to [http://www.ocfo.usda.gov/uscasp/uscasp.htm](http://www.ocfo.usda.gov/uscasp/uscasp.htm) to view the USDA Strategic Plan.
Generic Logic Model for NIFA Reporting
NIFA – Office of Planning & Accountability

(This model is intended to be illustrative guide for reporting on NIFA funded research, education and extension activities. It is not a comprehensive inventory of our programs.)

**Situation**
- Farmers face increasing challenges from globalization
- Opportunity to improve animal health through genetic engineering
- Insufficient # of trained & diverse professionals entering agricultural fields
- Youth at risk
- Invasive species is becoming an increasing problem
- Bioterrorism
- Obesity crisis
- Impaired water quality

**Inputs**
- What we invest:
  - Faculty
  - Staff
  - Students
  - Infrastructure
  - Federal, state and private funds
  - Time
  - Knowledge
  - The collection of stakeholder opinions

**Activities**
- What we do (Activities):
  - Design and conduct research
  - Publish scientific articles
  - Develop research methods and procedures
  - Teach students
  - Conduct non-formal education
  - Provide counseling
  - Develop products, curriculum & resources

**Outputs**
- Who we reach (Participation):
  - Other scientists
  - Extension Faculty
  - Teaching Faculty
  - Students
  - Federal, state & private funders
  - Scientific journal, industry & popular magazine editors
  - Agencies
  - Policy and decision-makers
  - Agricultural, environmental, life & human science industries
  - Public

**Outcomes**
- Occurs when there is a change in knowledge or the participants actually learn:
  - New fundamental or applied knowledge
  - Scientific publications
  - Patents
  - New methods & technology
  - Plant & animal varieties
  - Practical knowledge for policy and decision-makers
  - Information, skills & technology for individuals, communities and programs
  - Participants reached
  - Students graduated in agricultural sciences

- Occurs when there is a change in behavior or the participant's act upon what they’ve learned and:
  - Apply improved fundamental or applied knowledge
  - Adopt new improved skills
  - How technology is applied
  - About new plant & animal varieties
  - Increased knowledge of decision-making, life skills, and positive life choices among youth & adults
  - Policy knowledge
  - New improved methods

- Occur when a societal condition is improved due to a participant's action taken in the previous column:
  - For example, specific contributions to:
    - Increased market opportunities overseas and greater economic competitiveness
    - Better and less expensive animal health
    - Vibrant & competitive agricultural workforce
    - Higher productivity in food provision
    - Better quality-of-life for youth & adults in rural communities
    - Safer food supply
    - Reduced obesity and improved nutrition & health
    - Higher water quality and a cleaner environment

**Assumptions** - These are the premises based on theory, research, evaluation knowledge etc. that support the relationships of the elements shown above, and upon which the success of the portfolio, program, or project rests. For example, finding animal gene markers for particular diseases will lead to better animal therapies.

**External Factors** - A brief discussion of what variables have an effect on the portfolio, program or project, but which cannot be changed by managers of the portfolio, program, or project. For example, a plant breeding program’s success may depend on the variability of the weather...etc.

Version 1.2
**PROJECT SUMMARY**

**Instructions:**
The summary is limited to 250 words. The names and affiliated organizations of all Project Directors/Principal Investigators (PD/PI) should be listed in addition to the title of the project. The summary should be a self-contained, specific description of the activity to be undertaken and should focus on: overall project goal(s) and supporting objectives; plans to accomplish project goal(s); and relevance of the project to the goals of the program. The importance of a concise, informative Project Summary cannot be overemphasized.

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**Relevant NIFA challenge area (see Part I, H.)**

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<th>Program Priority Area(s) (see Part I, D.)</th>
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**Degree level addressed for Education applications (see Part I, C.1.), When applicable**

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<th>Program Code (see Part I, F.)</th>
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| Select Proposal type (see Part II, B) |
| Single | Joint | Integrated |

| Select Project type (see Part II, D) |
| Research | Teaching | Extension |

The project summary is limited to 250 words.

This file MUST be converted to PDF prior to attachment in the electronic application package.
APPENDIX FOR PROJECT EVALUATION AND REPORTING

The Program Need Areas are listed below. Underneath the Need Areas are suggestions for quantifying the outputs (e.g., products developed and individuals served) and impacts of the projects. Consider using valid and reliable methodology (i.e., pre/posttest instruments and surveys, focus groups, interviews, etc.) to answer the impacts and outcomes questions. This information should be presented in your proposal (i.e., “what you intend to do”) and in your annual and final reports (i.e., “what you have done”).

TEACHING

Curricula Design and Materials Development
Products and Individuals Served:
Please identify: Programs, courses, curricula, instructional materials
Please identify: on campus instruction, distance education
# of courses developed
# of degree programs developed
  If applicable, degree level _____
# of students enrolled in new course/degree program
# of students using technology/materials derived from project
# of degrees conferred in new program
# of collaborating institutions

Outcomes and Impacts:
Did the new curricula, materials, or programs affect students’ interest, engagement, or learning in the food and agriculture sciences?
To what extent did other institutions adopt the program or curricula developed?

Scientific Instrumentation for Teaching
Products and Individuals Served:
Type of instrumentation obtained: lab equipment, computers, lab supplies
  Other (please specify): _________
# of students using the new instrumentation
# of faculty using the new instrumentation
# of collaborating departments within the institutions
# of collaborating institutions

Outcomes and Impacts:
Did the new scientific instrumentation affect students’ interest, engagement, or learning in the food and agriculture sciences?
# of students trained on new instrumentation that enrolled in graduate degree programs in related disciplines
# of students trained on new instrumentation that obtained employment in related disciplines

Faculty Preparation and Enhancement for Education
Products and Individuals Served:
# of faculty supported to attend or participate in the following training or developmental activities:
- Certification programs
- Workshops
- Experiential learning opportunities
- Professional meetings
- Sabbaticals/Visiting Scholar Programs
- Other (please specify): _______

# of collaborating institutions

Outcomes and Impacts:
Did the faculty development opportunities affect faculty competencies in teaching food and agriculture sciences (e.g., # of faculty who are using or plan to use the new competencies in the classroom)?

Student Experiential Learning

Products and Individuals Served:
Location of activity: on campus, off campus, both
# of experiential learning opportunities at the following locations:
- Businesses
- Organizations/non-profits
- Academic institutions
- USDA agencies
- Federal agencies other than USDA
- State/local government
- International
- Other (please specify)___________

# of experiential learning opportunities:
- Internships
- Research opportunities
- International/ study abroad
- Peer mentoring
- Volunteer opportunities /community service
- Outreach/extension activities
- Other (please specify) ___________

# of publications (i.e., journal, newsletter articles or other media)
- Citations: __________

# of products (i.e., webpages, games, etc.)
# of presentations (i.e., oral or posters)
# of university collaborators (i.e., for Joint Projects)

Outcomes and Impacts:
Do the experiential learning opportunities developed affect students’ interest, engagement, or learning in the food and agriculture sciences (e.g., # of students interested in pursuing careers in an international dimensions of food and agriculture sciences)?

**Student Recruitment**

*Products and Individuals Served:*
- # of students contacted (include K-12)
- # of parents and/or counselors contacted
- # of collaborating institutions
- # of students recruited in the current academic year (for annual reports)
- # of students enrolled as a result of recruitment efforts (Final report)
- # of underrepresented students recruited

*Types of activities:*
  a. institution field trips
  b. academic preparation workshops
  c. academic preparation curricula/materials
  d. financial assistance

*Outcomes and Impacts:*
Did the techniques used in the project influence the number of students (or number of underrepresented students) recruited in comparison to recruiting techniques used prior?

**Student Retention**

*Products and Individuals Served:*
- # of students retained in the current academic year
- # underrepresented students retained in the current academic year
- # of tutoring hours
- # of advisor hours

*Outcomes and Impacts:*
Do the techniques used in the project influence the number of students (or number of underrepresented students) retained in comparison to retention techniques used prior?

**Instructional Delivery Systems**

*Products and Individuals Served:*
- # of students benefiting from the new instructional delivery system
- # of faculty using the new instructional delivery system
- # of cooperative learning opportunities developed
- # of online classes developed
- # of collaborating institutions

*Outcomes and Impacts:*
Does the new instructional delivery system affect students’ interest, engagement, or learning in the food and agriculture sciences?

**RESEARCH PROJECTS**

*Products and Individuals Served:*

56
# of participating students
# of participating faculty
# of participating institutions
# of conference presentations
# of peer-reviewed journal articles
# of publications besides peer-reviewed journal articles
# of patents

Outcomes and Impacts:
What new discoveries were generated through this research project? What are the benefits and who will benefit?

EXTENSION PROJECTS

Extension Program Development
Products and Individuals Served:
# of faculty and/or volunteers supported to attend or participate in the following training or developmental activities:
  - Certification programs
  - Workshops
  - Experiential learning opportunities
  - Professional meetings
  - Sabbaticals
  - Other (please specify): _______
# of collaborating institutions

Extension Technology Upgrades
Products and Individuals Served:
Type of technology upgrade or obtained: mobile units, distance learning equipment
  - Other (please specify): _______
# of faculty/volunteers using the technology
# of community members benefiting from the technology
# of university students supporting the project
# of collaborating institutions

Outcomes and Impacts:
Did the upgrade or new technology affect the target audience’s interest, engagement, or learning in the food and agriculture sciences?

Extension Delivery/Methodology
Products and Individuals Served:
Type of delivery or methods implemented: new curriculum, program centers, after-school programs
  - Other (please specify): _______
# of faculty/volunteers using the new delivery system/methods
# of community members benefiting from the new delivery system/methods
# of educational materials developed (i.e., CDs, brochures, etc.)
# of university students supporting the project
# of collaborating institutions

**Outcomes and Impacts:**
Did the new delivery system/methods affect the target audience’s interest, engagement, or learning in the food and agriculture sciences?