Competitive grant program for fundamental and applied

1. Research
2. Education
3. Extension

CBG Program
The 1890 CBG is intended to strengthen teaching, research and extension programs in the food and agricultural sciences by building the institutional capacities of the 1890 Land-Grant Institutions, and Tuskegee University. The CBG program supports projects that strengthen teaching programs in the food and agricultural sciences in the need areas of curriculum design and materials development, faculty development, and others. CBG supports projects that strengthen research and extension programs in need areas of studies and experimentation, extension program development support systems, and others. The CBG also support integrated project grants. The intent of this initiative is the increase and strengthen food and agriculture sciences at the 1890s through integration of education, research and extension. Applications must address at least one of the following NIFA strategic goals: sustainable bioenergy; food security; childhood obesity prevention; climate change; or food safety.

Purpose:
The purpose of the 1890 Capacity Building Program is to support research, education, and 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 (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, agricultural and human sciences.

The program is designed to achieve three (3) major goals:
1. To advance the 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, agricultural and human sciences higher education system.

Application Deadline: March 19, 2014 (5:00pm EST)
Funding Levels:

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Teaching Maximum Project Budget</th>
<th>Research Maximum Project Budget</th>
<th>Extension Maximum Project Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Institution Applications</td>
<td>$150,000</td>
<td>$300,000</td>
<td>$250,000</td>
</tr>
<tr>
<td>Joint Project Proposals</td>
<td>$300,000</td>
<td>$500,000</td>
<td>$350,000</td>
</tr>
<tr>
<td>Professional Development</td>
<td></td>
<td>$100,000 (1 year)</td>
<td></td>
</tr>
<tr>
<td>Integrated Project Applications</td>
<td></td>
<td>$600,000</td>
<td></td>
</tr>
</tbody>
</table>

Project Types:

1. Single Institution Proposals:
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. Grant funds are limited to the applicant institution (no sub-awards are allowed). 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:
Education, Research and/or Extension applications that **support joint projects**, including approaches to: scientific investigations (Research); curriculum development, student training, or faculty preparation (Education; or program delivery (Extension) that are multidisciplinary and interdisciplinary and that address critical U.S. food, agricultural and human science issues at the local, state, regional and national level(s). The applications should address food, agricultural and human science priority areas identified in Part 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, agricultural and human science program areas (Part I, C.) **AND** one (1) of the Priority Program Areas (Part I, D.) (see pages 23-24 for further criteria).
4. Professional Development (pp. 24-25):
The purpose of the Professional Development program is to help faculty enhance their networking and competitive capacity by working collaboratively with colleagues from 1890 and 1862 Land-grant Universities, other public and private universities, federal agencies, private and non-governmental institutions, foundations, and other domestic and international research entities. Professional Development Grants are intended to provide an opportunity for individual faculty members (each award is to support one (1) faculty member at the applicant university) to enhance the quality of their research, teaching, and/or extension work. Professional Development applications that support Education, Research and/or Extension faculty, may include approaches such as: sabbaticals; mini-sabbaticals for short-term training; faculty exchanges; or courses.

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.

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

Program Need Areas

1. Teaching (pp. 10-14)
Education applications must address one (1) or more of the following Need Areas. 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 [link](http://dels.nas.edu/Report/Transforming-Agricultural-Education-Changing/1260-2?bname). These recommendations include:

- 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; and
- Focus Reviews of Undergraduate Programs in Agriculture

The CBG Program supports the goals and objectives of the Federal Coordination in STEM Education Task Force (pp. 10-11).

2. **Research (pp. 14-16)**

Research applications must address one (1) or both 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. 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*  

a) Studies and Experimentation in Food, agricultural and human sciences  
b) Centralized Research Support Systems

3. **Extension (pp. 16-17)**

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  
b) Extension Technology Upgrades  
c) Extension Delivery/Methodology

4. **Integrated Project Grants (p. 17)**

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 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. NIFA places high value on integration in program design and implementation in order to address the many and complex problems facing U.S. agriculture. Applicants are encourage to see  
http://www.NIFA.usda.gov/funding/integrated/integrated.html for an example of an integrated proposal and other grant-writing resources.