<table>
<thead>
<tr>
<th>Chart #s</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3</td>
<td>USDA organization chart</td>
</tr>
<tr>
<td>4 - 11</td>
<td>National Institute of Food and Agriculture (NIFA)</td>
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<tr>
<td>5</td>
<td>NIFA Research Programs</td>
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<td>6 - 11</td>
<td>Agriculture and Food Research Initiative (AFRI)</td>
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<td>12</td>
<td>Forest Service Research Program</td>
</tr>
<tr>
<td>13</td>
<td>Agriculture Research Service (intramural research)</td>
</tr>
</tbody>
</table>

To get copies of these charts, pertinent reports and other reference information go to:
Central Desktop  http://www.centraldesktop.com/
to login to the USC site, get username and password from nlwalker@usc.edu
USDA/NIFA Extramural Research Funding Information on Central Desktop

“Guide to FY2014 USDA Research Funding Opportunities”

Agency (USDA) Program Charts (~10)

USDA/NIFA Program Officer Data Sheets

Various resources - charts, plans, workshops, presentations

To get copies of these charts, pertinent reports and other reference information go to:
Central Desktop  http://www.centraldesktop.com/
to login to the USC site, get username and password from nlwalker@usc.edu
NIFA Research Programs

NIFA-funded research spans problems and issues encompassed within 13 national emphasis areas

- Agricultural Systems
- Animals
- Biotechnology & Genomics
- Economics & Community Development
- Education
- Families, Youth & Communities
- Food, Nutrition & Health
- International
- Environment & Natural Resources
- Pest Management
- Plants
- Technology & Engineering

Each of these national emphasis areas includes one or more NIFA programs, each a compendium of related NIFA research, education, and extension activities. A program highly pertinent to USC is the Agriculture and Food Research Initiative (AFRI) - see next chart.

Types of Research

NIFA-funded research may be basic or applied. *Basic research* discovers the underlying processes and systems that make a plant, animal, ecosystem, food system, community, or marketplace work. For example, basic research might seek to discover the genetic map of a plant or animal, or show how economic and human resources affect economic growth in rural areas. *Applied research* expands on basic research findings to uncover practical ways in which new knowledge can be advanced to benefit individuals and society. Here, researchers might use a genetic map to develop gene therapies to treat human diseases or develop new programs to enhance community capital and stability in rural communities.

Each RFA may generate from 2 to more than 600 applications, which then undergo a rigorous review process. That review is conducted by a panel of 3 to 25 individuals with international-level expertise in the field in question. These panels review each application, evaluating it based on its scientific merits and how well it addresses the research priorities determined by Congress and the NIFA stakeholder input process, and the quality of the facilities and researchers who would conduct the project. A summary of the panel review for each eligible application is recorded, and the panel recommends whether or not it should be funded.

Funding opportunities at:
http://www.csrees.usda.gov/fo/funding.cfm
http://www.csrees.usda.gov/funding/afri/afri_program_deadline_dates.html

Listing of RFAs present and near future
http://www.csrees.usda.gov/funding/rfas/afri.html
Competitive Grants Program

Overview

The Agriculture and Food Research Initiative (AFRI) at the National Institute of Food and Agriculture (NIFA) is charged with funding research, education, and extension grants and integrated research, extension, and education grants that address key problems of National, regional, and multi-state 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, biotechnology, and conventional breeding.

Providing this support requires that AFRI advances fundamental sciences in support of agriculture and coordinates opportunities to build on these discoveries. This will necessitate efforts in education and extension that deliver science-based knowledge to people, allowing them to make informed practical decisions.

Project types supported by AFRI within this area include single-function Research Projects, multi-function Integrated Projects, and Food and Agricultural Science Enhancement (FASE) Grants.
USDA/NIFA
Agriculture and Food Research Initiative (AFRI)

What:
In the last several years NIFA has issued seven RFAs for the AFRI Program:
1) Foundational Program addressing the six AFRI priority areas

2) Challenge Areas:
   1. Childhood Obesity Prevention
   2. Climate Change
   3. Food Safety
   4. Global Food Security
   5. Sustainable Bioenergy

3) NIFA Fellowships Grant Program soliciting Pre and Postdoctoral Fellowship Grant applications

Applications for AFRI funds may also be solicited through other announcements including supplemental AFRI RFAs or in conjunction with multi agency programs

When:
Letter of Intent Deadline Required for most programs
for FY2013 competition due date in Nov 2012

Application Deadline
for FY2013 program, February for LOI programs,
May 22, 2013 (5:00 p.m. ET) for other

How Much:
Standard Grants must not exceed $500,000 total (including indirect costs) for project periods of up to 5 years.
<table>
<thead>
<tr>
<th>Program Code</th>
<th>Program Contact</th>
<th>FY2013 ($M)</th>
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</thead>
<tbody>
<tr>
<td>A1101</td>
<td>Liang-Shiou Lin</td>
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</tr>
<tr>
<td>A1111</td>
<td>Mary Purcell-Miramontes</td>
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<tr>
<td>A1121</td>
<td>Ann Lichens-Park</td>
<td></td>
</tr>
<tr>
<td>A1131</td>
<td>Michael Bowers</td>
<td></td>
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<tr>
<td>A1141</td>
<td>Ed Kaleikau</td>
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</tr>
<tr>
<td>A1201</td>
<td>Lakshmi Matukumalli</td>
<td>33</td>
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<tr>
<td>A1211</td>
<td>Mark Mirando</td>
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<tr>
<td>A1221</td>
<td>Peter Johnson</td>
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<tr>
<td>A1231</td>
<td>Mark Mirando</td>
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<td>A1331</td>
<td>Jeanette Thurston</td>
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<tr>
<td>A1341</td>
<td>Ram Rao</td>
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<tr>
<td>A1351</td>
<td>Improving Food Quality</td>
<td>(not in FY13)</td>
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<tr>
<td>A1361</td>
<td>Ram Rao</td>
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<tr>
<td>A1401</td>
<td>James Dobrowolski</td>
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<tr>
<td>A1421</td>
<td>(not in FY13)</td>
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<td>(not in FY13)</td>
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<tr>
<td>A1511</td>
<td>Hongda Chen</td>
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<tr>
<td>A1521</td>
<td>Daniel Schmoldt</td>
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<td>A1601</td>
<td>Suresh Shureshwaran</td>
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<td>A1641</td>
<td>Robin Shoemaker</td>
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### USDA/NIFA

#### Agriculture and Food Research Initiative

**Challenge Area Programs**

<table>
<thead>
<tr>
<th>Program Code</th>
<th>Program Contact</th>
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<tbody>
<tr>
<td>A2101</td>
<td>Deirdre Chester</td>
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<tr>
<td>A3141</td>
<td>Michael Bowers</td>
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<tr>
<td>A4141</td>
<td>Isabel Walls</td>
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</tr>
<tr>
<td>A4171</td>
<td>Ramkishan Rao</td>
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<tr>
<td>A4181</td>
<td>Jodi Williams</td>
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<tr>
<td>A5050</td>
<td>Robbin Shoemaker</td>
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<tr>
<td>A5151</td>
<td>Margo Holland</td>
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<tr>
<td>A6101</td>
<td>William Goldner</td>
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</tr>
<tr>
<td>A6126</td>
<td>Nancy Cavallaro</td>
<td>10</td>
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</tr>
</tbody>
</table>

### Challenge Area Programs

1. **Childhood Obesity Prevention Challenge Area**
   - Program Code: A2101
   - Contact: Deirdre Chester
   - FY2013: 5

2. **Agricultural and Natural Resources Science for Climate Variability and Change Challenge Area**
   - Program Code: A3141
   - Contact: Michael Bowers
   - FY2013: 5

3. **Food Safety**
   - Addressing Critical and Emerging Food Safety Issues: Program Code A4141, Contact: Isabel Walls
   - Effective Mitigation Strategies for Antimicrobial Resistance: Program Code A4171, Contact: Ramkishan Rao
   - Improving the Safety of Fresh and Fresh Cut Produce: Program Code A4181, Contact: Jodi Williams

4. **Food Security Challenge Area**
   - Food Security Conference or Workshop: Program Code A5050, Contact: Robbin Shoemaker
   - Reducing Crop and Livestock Losses: Program Code A5151, Contact: Margo Holland

5. **Sustainable Bioenergy Challenge Area**
   - Development and Sustainable Production of Regionally appropriate Biomass: Program Code A6101, Contact: William Goldner
   - Impacts of Regional Bioenergy Systems on Water Availability and Quality: Program Code A6126, Contact: Nancy Cavallaro

### NIFA Fellowships Grant Program

- Contact: Ray Ali
Agriculture and Food Research Initiative (AFRI). AFRI is the Nation’s premier competitive, peer-reviewed research program for fundamental and applied sciences in agriculture. It is broad in scope with programs ranging from fundamental science to farm management and community issues. AFRI will solicit its core program through seven separate RFAs. Applicants are encouraged to review each RFA to explore all the opportunities available to them.

http://www.csrees.usda.gov/funding/rfas/afri.html

**FY 2014 Foundational Program**  
Release date August 15, 2013

**FY 2014 NIFA Fellowships Grant Program**  
Release date August 15, 2013

**FY 2014 Agricultural and Natural Resources Science for Climate Variability and Change**  
Release date October 1, 2013

**FY 2014 Food Safety**  
Release date October 1, 2013

**FY 2014 Food Security**  
Release date November 1, 2013

**FY 2014 Sustainable Bioenergy**  
Release date November 1, 2013

**FY 2014 Childhood Obesity Prevention**  
Release date December 1, 2013
Other NIFA Programs
Open to Institutions of Higher Education

Specialty Crop Research Initiative
http://www.csrees.usda.gov/fo/specialtycropresearchinitiative.cfm
For More Information Contact  Thomas (Tom) Bewick
Funding Opportunity Number  USDA-NIFA-SCRI-003562

Plant Feedstock Genomics for Bioenergy (joint USDA and DOE)
For More Information Contact  Ed Kaleikau
Funding Opportunity Number  DE-FOA-0000770

Biomass Research and Development Initiative
For More Information Contact  William Goldner
Funding Opportunity Number  USDA-NIFA-9008-003828

Sustainable Agriculture Research and Education Program (SARE)
For More Information Contact  Bradley Rein P.E.

Biotechnology Risk Assessment Research Grants Program (BRAG)
For More Information Contact  Shing F Kwok
Funding Opportunity Number  USDA-NIFA-BRAP-004069

National Integrated Water Quality Program (NIWQP)
For More Information Contact  James P Dobrowolski
Funding Opportunity Number  USDA-NIFA-ICGP-004309
Forest Service R&D has a long history of supporting extramural research through grants and agreements to colleges and universities (a July 1 2013 search of grants.gov did not show any solicitation in the past 5 years); state, local, and tribal governments; nonprofit organizations; industry; and individuals. The organization consists of seven research stations and 80 experimental forests and ranges. Forest Service R&D interacts with national forests in nine regions and with the agency's State and Private Deputy Area throughout the United States. Forest Service R&D is also allied with agencies in the USDA Research, Education, and Economics mission area, including the Agricultural Research Service (ARS), National Institute of Food and Agriculture, National Agricultural Statistics Service, and ARS' National Agricultural Library. Forest Service R&D also partners with other federal agencies, non-governmental organizations, universities, and the private sector.

The Forest and Rangeland Research appropriation provides funds to develop and deliver knowledge and innovative technology to improve the health and use of the Nation’s forests and rangelands in public and private lands. Funding maintains key research associated with the Strategic Program Areas (SPAs) and Priority Research Areas (PRAs). The PRAs are the mechanism Forest Service R&D uses to address urgent current and emerging broad-level issues. Within the PRAs, multiple areas may be addressed which are funded through the SPAs (long-term research programs including fire, wildlife, invasives, among others).

R&D is organized into the primary topics listed below.

- **Invasive Species**: Reduces, minimizes, or eliminates the introduction, establishment, spread, and effects of invasive species.
- **Inventory, Monitoring & Analysis**: Identifies current status and trends of forests; management options and effects; and threats and their effects on the Nation's forests and grasslands species.
- **Outdoor Recreation**: Examines to understand and manage outdoor environments, activities, and experiences that connect people with the natural world.
- **Resource Management & Use**: Explores forest and range resources and products, including *Agroforestry*, *Forest Products*, *Landscape Science*, *Management & Operations*, and *Urban Research*.
- **Water, Air & Soil**: Enables clear air and safe drinking water, protection of lives and property from wildfire and smoke, and adapting to climate variability and change.
- **Wildland Fire & Fuel**: Focuses on reducing the negative and enhancing the beneficial effects of fire.
- **Wildlife & Fish**: Investigates the complex interactions among species, ecosystem dynamics and processes, land use and management, and emerging threats.
The ARS is the in-house research arm of the USDA. Every single ARS research project is peer reviewed by scientific panels to ensure the continued excellence of the agency’s research. The panels consist mainly of non-ARS scientists. The reviews are arranged through our Office of Scientific Quality Review.

Each research project is a part of one or more of 18 ARS National Research Programs. These programs are planned in consultation with many people inside and outside ARS. This ensures that the programs are relevant to priority needs.

**Animal Production and Protection**
- Food Animal Production (NP #101)
- Animal Health (NP #103)
- Veterinary, Medical, and Urban Entomology (NP #104)
- Aquaculture (NP #106)

**Nutrition, Food Safety, and Quality**
- Human Nutrition (NP #107)
- Food Safety (animal and plant products) (NP #108)
- Quality and Utilization of Agricultural Products (NP #306)

**Natural Resources and Sustainable Agricultural Systems**
- Water Availability and Watershed Management (NP #211)
- Climate Change, Soils, and Emissions (NP #212)
- Bioenergy (NP #213)
- Agricultural and Industrial Byproducts (NP #214)
- Pasture, Forage and Rangeland Systems (NP #215)
- Agricultural System Competitiveness and Sustainability (NP #216)

**Crop Production and Protection**
- Plant Genetic Resources, Genomics and Genetic Improvement (NP #301)
- Plant Biological and Molecular Processes (NP #302)
- Plant Diseases (NP #303)
- Crop Protection and Quarantine (NP #304)
- Crop Production (NP #305)
- Methyl Bromide Alternatives (NP #308)

Every research location is directly managed by one of our eight area offices located around the country. Management of our overall research enterprise is provided through headquarters offices in Washington, D.C., and nearby Beltsville, Md.