project. Such USDA agency cooperation may include, but is not limited to, assisting the applicant institution with proposal development, identifying possible sources of matching funds, securing resources, implementing funded projects, providing technical assistance and expertise throughout the life of the project, participating in project evaluation, and disseminating project results.

(b) The designated NIFA agency contact can provide suggestions to institutions seeking to secure a USDA agency cooperator on a particular proposal.

(c) USDA 1890 Liaison Officers, and other USDA employees serving on the campuses of the 1890 colleges and universities, may assist with proposal development and project execution to satisfy the cooperator requirement, in whole or in part, but may not serve as project directors or principal investigators.

(d) Any USDA office responsible for administering a competitive or formula grants program specifically targeted to 1890 Institutions may not be a cooperator for this program.

§ 3406.7 General scope of program.

This program supports both teaching project grants and research project grants. Such grants are intended to strengthen the teaching and research capabilities of applicant institutions. Each 1890 Institution may submit one or more grant applications for either category of grants (as allowed by the annual program notice). However, each application must be limited to either a teaching project grant proposal or a research project grant proposal.

§ 3406.8 Joint project proposals.

Applicants are encouraged to submit joint project proposals as defined in §3406.2, which address regional or national problems and which will result overall in strengthening the 1890 university system. The goals of such joint initiatives should include maximizing the use of limited resources by generating a critical mass of expertise and activity focused on a targeted need area(s), increasing cost-effectiveness through achieving economies of scale, strengthening the scope and quality of a project’s impact, and promoting collaboration building likely to transcend the project’s lifetime and lead to future ventures.

§ 3406.9 Complementary project proposals.

Institutions may submit proposals that are complementary in nature as defined in §3406.2. Such complementary project proposals may be submitted by the same or by different eligible institutions.

§ 3406.10 Use of funds for facilities.

Under the 1890 Institution Capacity Building Grants Program, the use of grant funds to plan, acquire, or construct a building or facility is not allowed. With prior approval, in accordance with the cost principles set forth in OMB Circular No. A–21, some grant funds may be used for minor alterations, renovations, or repairs deemed necessary to retrofit existing teaching or research spaces in order to carry out a funded project. However, requests to use grant funds for such purposes must demonstrate that the alterations, renovations, or repairs are incidental to the major purpose for which a grant is made.

Subpart C—Preparation of a Teaching Proposal

§ 3406.11 Scope of a teaching proposal.

The teaching component of the program will support the targeted need area(s) related to strengthening teaching programs as specified in the annual program announcement. Proposals may focus on any subject matter area(s) in the food and agricultural sciences unless limited by determinations as specified in the annual program announcement. A proposal may address a single targeted need area or multiple targeted need areas, and may be focused on a single subject matter area or multiple subject matter areas, in any combination (e.g., curriculum development in horticulture; curriculum development, faculty enhancement, and student experiential learning in animal science; faculty enhancement in food science and agribusiness management; or instruction delivery systems and student experiential learning in plant science,
horticulture, and entomology). Applicants are also encouraged to include a library enhancement component related to the teaching project in their proposals. A proposal may be directed toward the undergraduate or graduate level of study as specified in the annual program announcement. Targeted need areas for teaching programs will consist of one or more of the following:

(a) Curricula design and materials development. (1) The purpose of this need area is to promote new and improved curricula and materials to increase the quality of, and continuously renew, the Nation’s academic programs in the food and agricultural sciences. The overall objective is to stimulate the development and facilitate the use of exemplary education models and materials that incorporate the most recent advances in subject matter, research on teaching and learning theory, and instructional technology. Proposals may emphasize:

(i) The development of courses of study, degree programs, and instructional materials; the use of new approaches to the study of traditional subjects; or the introduction of new subjects, or new applications of knowledge, pertaining to the food and agricultural sciences.

(ii) Raising the level of scholastic achievement of the Nation’s graduates in the food and agricultural sciences.

(iii) Addressing the special needs of particular groups of students, such as minorities, gifted and talented, or those with educational backgrounds that warrant enrichment.

(iv) Using alternative instructional strategies or methodologies, including computer-assisted instruction or simulation modeling, media programs that reach large audiences efficiently and effectively, activities that provide hands-on learning experiences, and educational programs that extend learning beyond the classroom.

(v) Building student competencies to integrate and synthesize knowledge from several disciplines.

(b) Faculty preparation and enhancement for teaching. (1) The purpose of this need area is to advance faculty development in the areas of teaching competency, subject matter expertise, or student recruitment and advising skills. Teachers are central to education. They serve as models, motivators, and mentors—the catalysts of the learning process. Moreover, teachers are agents for developing, replicating, and exchanging effective teaching materials and methods. For these reasons, education can be strengthened only when teachers are adequately prepared, highly motivated, and appropriately recognized and rewarded.

(2) Each faculty recipient of support for developmental activities under § 3406.11(b) must be an “eligible participant” as defined in § 3406.2 of this part.

(3) Examples of developmental activities include, but are not limited to, those which enable teaching faculty to:

(i) Gain experience with recent developments or innovative technology relevant to their teaching responsibilities.

(ii) Work under the guidance and direction of experts who have substantial expertise in an area related to the developmental goals of the project.

(iii) Work with scientists or professionals in government, industry, or other colleges or universities to learn new applications in a field.

(iv) Obtain personal experience working with new ideas and techniques.

(v) Expand competence with new methods of information delivery, such as computer-assisted or televised instruction.

(c) Instruction delivery systems. (1) The purpose of this need area is to encourage the use of alternative methods of delivering instruction to enhance the quality, effectiveness, and efficiency of teaching programs. The importance of this initiative is evidenced by advances in educational research which have substantiated the theory that differences in the learning styles of students often require alternative instructional methodologies. Also, the
rising costs of higher education strongly suggest that colleges and universities undertake more efforts of a collaborative nature in order to deliver instruction which maximizes program quality and reduces unnecessary duplication. At the same time, advancements in knowledge and technology continue to introduce new subject matter areas which warrant consideration and implementation of innovative instruction techniques, methodologies, and delivery systems.

(2) Examples include, but are not limited to:
   (i) Use of computers.
   (ii) Teleconferencing.
   (iii) Networking via satellite communications.
   (iv) Regionalization of academic programs.
   (v) Mobile classrooms and laboratories.
   (vi) Individualized learning centers.
   (vii) Symposia, forums, regional or national workshops, etc.

(d) Scientific Instrumentation for teaching. (1) The purpose of this need area is to provide students in science-oriented courses the necessary experience with suitable, up-to-date equipment in order to involve them in work central to scientific understanding and progress. 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. A proposal may request support for acquiring new, state-of-the-art instructional scientific equipment, upgrading existing equipment, or replacing non-functional or clearly obsolete equipment.

(2) Examples include, but are not limited to:
   (i) Rental or purchase of modern instruments to improve student learning experiences in courses, laboratories, and field work.
   (ii) Development of new ways of using instrumentation to extend instructional capabilities.
   (iii) Establishment of equipment-sharing capability via consortia or centers that develop innovative opportunities, such as mobile laboratories or satellite access to industry or government laboratories.

(e) Student experiential learning. (1) The purpose of this need area is to further the development of student scientific and professional competencies through experiential learning programs which provide students with opportunities to solve complex problems in the context of real-world situations. Effective experiential learning is essential in preparing future graduates to advance knowledge and technology, enhance quality of life, conserve resources, and revitalize the Nation’s economic competitiveness. Such experiential learning opportunities are most effective when they serve to advance decision-making and communication skills as well as technological expertise.

(2) Examples include, but are not limited to, projects which:
   (i) Provide opportunities for students to participate in research projects, either as a part of an ongoing research project or in a project designed especially for this program.
   (ii) Provide opportunities for students to complete apprenticeships, internships, or similar participatory learning experiences.
   (iii) Expand and enrich courses which are of a practicum nature.

(iv) Provide career mentoring experiences that link students with outstanding professionals.

(f) Student recruitment and retention. (1) The purpose of this need area is to strengthen student recruitment and retention programs in order to promote the future strength of the Nation’s scientific and professional work force. The Nation’s economic competitiveness and quality of life rest upon the availability of a cadre of outstanding research scientists, university faculty, and other professionals in the food and agricultural sciences. A substantial need exists to supplement efforts to attract increased numbers of academically outstanding students to prepare for careers as food and agricultural scientists and professionals. It is particularly important to augment the racial, ethnic, and gender diversity of the student body in order to promote a robust exchange of ideas and a more effective
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use of the full breadth of the Nation’s intellectual resources.

(2) Each student recipient of monetary support for education costs or developmental purposes under § 3406.11(f) must be enrolled at an eligible institution and meet the requirement of an “eligible participant” as defined in § 3406.2 of this part.

(3) Examples include, but are not limited to:

(i) Special outreach programs for elementary and secondary students as well as 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.

(ii) Special activities and materials to establish more effective linkages with high school science classes.

(iii) Unique or innovative student recruitment activities, materials, and personnel.

(iv) Special retention programs to assure student progression through and completion of an educational program.

(v) Development and dissemination of stimulating career information materials.

(vi) Use of regional or national media to promote food and agricultural sciences higher education.

(vii) Providing financial incentives to enable and encourage students to pursue and complete an undergraduate or graduate degree in an area of the food and agricultural sciences.

§ 3406.12 Program application materials—teaching.

Program application materials in an application package will be made available to eligible institutions upon request. These materials include the program announcement, the administrative provisions for the program, and the forms needed to prepare and submit teaching grant applications under the program.

§ 3406.13 Content of a teaching proposal.

(a) Proposal cover page. (1) Form NIFA–712, “Higher Education Proposal Cover Page,” must be completed in its entirety. Note that providing a Social Security Number is voluntary, but is an integral part of the NIFA information system and will assist in the processing of the proposal.

(2) One copy of the Form NIFA–712 must contain the pen-and-ink signatures of the project director(s) and authorized organizational representative for the applicant institution.

(3) The title of the teaching project shown on the “Higher Education Proposal Cover Page” must be brief (80-character maximum) yet represent the major thrust of the project. This information will be used by the Department to provide information to the Congress and other interested parties.

(4) In block 7. of Form NIFA–712, enter “1890 Institution Capacity Building Grants Program.”

(5) In block 8.a. of Form NIFA–712, enter “Teaching.” In block 8.b, identify the code for the targeted need area(s) as found on the reverse of the form. If a proposal focuses on multiple targeted need areas, enter each code associated with the project. In block 8.c, identify the major area(s) of emphasis as found on the reverse of the form. If a proposal focuses on multiple areas of emphasis, enter each code associated with the project; however, limit the selection to three areas. This information will be used by program staff for the proper assignment of proposals to reviewers.

(6) In block 9. of Form NIFA–712, indicate if the proposal is a complementary project proposal or a joint project proposal as defined in § 3406.2 of this part. If it is not a complementary project proposal or a joint project proposal, identify it as a regular project proposal.

(7) In block 13. of Form NIFA–712, indicate if the proposal is a new, first-time submission or if the proposal is a resubmission of a proposal that has been submitted to, but not funded under, the 1890 Institution Capacity Building Grants Program in a previous competition.

(b) Table of contents. For ease in locating information, each proposal must contain a detailed table of contents just after the Proposal Cover Page. The Table of Contents should include page numbers for each component of the proposal. Pagination should begin immediately following the summary document of USDA agency cooperation.