

(iii) Justify 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 project has the potential to generate a critical mass of expertise and activity focused on a targeted need area or promote coalition building that could lead to future ventures.

(iv) Include the percentage of time key personnel will work on the project, both during the academic year and summer. When salaries of university project personnel will be paid by a combination of USDA and institutional funds, the total compensation must not exceed the faculty member's regular annual compensation. In addition, the total commitment of time devoted to the project, when combined with time for teaching and research duties, other sponsored agreements, and other employment obligations to the institution, must not exceed 100 percent of the normal workload for which the employee is compensated, in accordance with established university policies and applicable Federal cost principles.

(v) If the proposal addresses more than one targeted need area (e.g., student experiential learning and instruction delivery systems), estimate the proportion of the funds requested from USDA that will support each respective targeted need area.

(i) *Current and pending support.* Each applicant must complete Form NIFA-663, "Current and Pending Support," identifying any other current public- or private-sponsored projects, in addition to the proposed project, to which key personnel listed in the proposal under consideration have committed portions of their time, whether or not salary support for the person(s) involved is included in the budgets of the various projects. This information should also be provided for any pending proposals which are currently being considered by, or which will be submitted in the near future to, other possible sponsors, including other USDA programs or agencies. Concurrent submission of identical or similar projects to other possible sponsors will not prej-

udice the review or evaluation of a project under this program.

(j) *Appendix.* Each project narrative is expected to be complete in itself and to meet the 20-page limitation. Inclusion of material in an Appendix should not be used to circumvent the 20-page limitation of the proposal narrative. However, in those instances where inclusion of supplemental information is necessary to guarantee the peer review panel's complete understanding of a proposal or to illustrate the integrity of the design or a main thesis of the proposal, such information may be included in an Appendix. Examples of supplemental material are photographs, journal reprints, brochures and other pertinent materials which are deemed to be illustrative of major points in the narrative but unsuitable for inclusion in the proposal narrative itself. Information on previously submitted proposals may also be presented in the Appendix (refer to paragraph (e) of this section). When possible, information in the Appendix should be presented in tabular format. A complete set of the Appendix material must be attached to each copy of the grant application submitted. The Appendix must be identified with the title of the project as it appears on Form NIFA-712 of the proposal and the name(s) of the project director(s). The Appendix must be referenced in the proposal narrative.

Subpart D—Review and Evaluation of a Teaching Proposal

§ 3406.14 Proposal review—teaching.

The proposal evaluation process includes both internal staff review and merit evaluation by peer review panels comprised of scientists, educators, business representatives, and Government officials who are highly qualified to render expert advice in the areas supported. Peer review panels will be selected and structured to provide optimum expertise and objective judgment in the evaluation of proposals.

§ 3406.15 Evaluation criteria for teaching proposals.

The maximum score a teaching proposal can receive is 150 points. Unless

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otherwise stated in the annual solicitation published in the FEDERAL REGISTER, the peer review panel will consider the following criteria and weights to evaluate proposals submitted:

Evaluation criterion	Weight
<p>(a) Potential for advancing the quality of education:</p> <p>This criterion is used to assess the likelihood that the project will have a substantial impact upon and advance the quality of food and agricultural sciences higher education by strengthening institutional capacities through promoting education reform to meet clearly delineated needs.</p> <p>(1) Impact—Does the project address a targeted need area(s)? Is the problem or opportunity clearly documented? Does the project address a State, regional, national, or international problem or opportunity? Will the benefits to be derived from the project transcend the applicant institution or the grant period? Is it probable that other institutions will adapt this project for their own use? Can the project serve as a model for others?</p> <p>(2) Continuation plans—Are there plans for continuation or expansion of the project beyond USDA support with the use of institutional funds? Are there indications of external, non-Federal support? Are there realistic plans for making the project self-supporting?</p> <p>(3) Innovation—Are significant aspects of the project based on an innovative or a non-traditional approach toward solving a higher education problem or strengthening the quality of higher education in the food and agricultural sciences? If successful, is the project likely to lead to education reform?</p> <p>(4) Products and results—Are the expected products and results of the project clearly defined and likely to be of high quality? Will project results be of an unusual or unique nature? Will the project contribute to a better understanding of or an improvement in the quality, distribution, or effectiveness of the Nation's food and agricultural scientific and professional expertise base, such as increasing the participation of women and minorities?</p>	<p>15 points.</p> <p>10 points.</p> <p>10 points.</p> <p>15 points.</p>
<p>(b) Overall approach and cooperative linkages:</p> <p>This criterion relates to the soundness of the proposed approach and the quality of the partnerships likely to evolve as a result of the project.</p> <p>(1) Proposed approach—Do the objectives and plan of operation appear to be sound and appropriate relative to the targeted need area(s) and the impact anticipated? Are the procedures managerially, educationally, and scientifically sound? Is the overall plan integrated with or does it expand upon other major efforts to improve the quality of food and agricultural sciences higher education? Does the timetable appear to be readily achievable?</p> <p>(2) Evaluation—Are the evaluation plans adequate and reasonable? Do they allow for continuous or frequent feedback during the life of the project? Are the individuals involved in project evaluation skilled in evaluation strategies and procedures? Can they provide an objective evaluation? Do evaluation plans facilitate the measurement of project progress and outcomes?</p> <p>(3) Dissemination—Does the proposed project include clearly outlined and realistic mechanisms that will lead to widespread dissemination of project results, including national electronic communication systems, publications, presentations at professional conferences, or use by faculty development or research/teaching skills workshops?</p> <p>(4) Partnerships and collaborative efforts—Does the project have significant potential for advancing cooperative ventures between the applicant institution and a USDA agency? Does the project workplan include an effective role for the cooperating USDA agency(s)? Will the project expand partnership ventures among disciplines at a university, between colleges and universities, or with the private sector? Will the project lead to long-term relationships or cooperative partnerships that are likely to enhance program quality or supplement resources available to food and agricultural sciences higher education?</p>	<p>15 points.</p> <p>5 points.</p> <p>5 points.</p> <p>15 points.</p>
<p>(c) Institutional capacity building:</p> <p>This criterion relates to the degree to which the project will strengthen the teaching capacity of the applicant institution. In the case of a joint project proposal, it relates to the degree to which the project will strengthen the teaching capacity of the applicant institution and that of any other institution assuming a major role in the conduct of the project.</p> <p>(1) Institutional enhancement—Will the project help the institution to: Expand the current faculty's expertise base; attract, hire, and retain outstanding teaching faculty; advance and strengthen the scholarly quality of the institution's academic programs; enrich the racial, ethnic, or gender diversity of the faculty and student body; recruit students with higher grade point averages, higher standardized test scores, and those who are more committed to graduation; become a center of excellence in a particular field of education and bring it greater academic recognition; attract outside resources for academic programs; maintain or acquire state-of-the-art scientific instrumentation or library collections for teaching; or provide more meaningful student experiential learning opportunities?</p> <p>(2) Institutional commitment—Is there evidence to substantiate that the institution attributes a high-priority to the project, that the project is linked to the achievement of the institution's long-term goals, that it will help satisfy the institution's high-priority objectives, or that the project is supported by the institution's strategic plans? Will the project have reasonable access to needed resources such as instructional instrumentation, facilities, computer services, library and other instruction support resources?</p>	<p>15 points.</p> <p>15 points.</p>
<p>(d) Personnel Resources: This criterion relates to the number and qualifications of the key persons who will carry out the project. Are designated project personnel qualified to carry out a successful project? Are there sufficient numbers of personnel associated with the project to achieve the stated objectives and the anticipated outcomes?</p>	<p>10 points.</p>
<p>(e) Budget and cost-effectiveness:</p>	

Evaluation criterion	Weight
This criterion relates to the extent to which the total budget adequately supports the project and is cost-effective.	
(1) Budget—Is the budget request justifiable? Are costs reasonable and necessary? Will the total budget be adequate to carry out project activities? Are the source(s) and amount(s) of non-Federal matching support clearly identified and appropriately documented? For a joint project proposal, is the shared budget explained clearly and in sufficient detail?	10 points.
(2) Cost-effectiveness—Is the proposed project cost-effective? Does it demonstrate a creative use of limited resources, maximize educational value per dollar of USDA support, achieve economies of scale, leverage additional funds or have the potential to do so, focus expertise and activity on a targeted need area, or promote coalition building for current or future ventures?	5 points.
(f) Overall quality of proposal: This criterion relates to the degree to which the proposal complies with the application guidelines and is of high quality. Is the proposal enhanced by its adherence to instructions (table of contents, organization, pagination, margin and font size, the 20-page limitation, appendices, etc.); accuracy of forms; clarity of budget narrative; well prepared vitae for all key personnel associated with the project; and presentation (are ideas effectively presented, clearly articulated, and thoroughly explained, etc.)?	5 points.

Subpart E—Preparation of a Research Proposal

§ 3406.16 Scope of a research proposal.

The research component of the program will support projects that address high-priority research initiatives in areas such as those illustrated in this section where there is a present or anticipated need for increased knowledge or capabilities or in which it is feasible for applicants to develop programs recognized for their excellence. Applicants are also encouraged to include in their proposals a library enhancement component related to the initiative(s) for which they have prepared their proposals.

(a) *Studies and experimentation in food and agricultural sciences.* (1) The purpose of this initiative is to advance the body of knowledge in those basic and applied natural and social sciences that comprise the food and agricultural sciences.

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

(i) Conduct plant or animal breeding programs to develop better crops, forests, or livestock (e.g., more disease resistant, more productive, yielding higher quality products).

(ii) Conceive, design, and evaluate new bioprocessing techniques for eliminating undesirable constituents from or adding desirable ones to food products.

(iii) Propose and evaluate ways 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).

(iv) Identify control factors influencing consumer demand for agricultural products.

(v) Analyze social, economic, and physiological aspects of nutrition, housing, and life-style choices, and of community strategies for meeting the changing needs of different population groups.

(vi) Other high-priority areas such as human nutrition, sustainable agriculture, biotechnology, agribusiness management and marketing, and aquaculture.

(b) *Centralized research support systems.* (1) The purpose of this initiative is to establish centralized support systems to meet national needs or serve regions or clientele that cannot otherwise afford or have ready access to the support in question, or to provide such support more economically thereby freeing up resources for other research uses.

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

(i) Storage, maintenance, characterization, evaluation and enhancement of germplasm for use by animal and plant breeders, including those using the techniques of biotechnology.

(ii) Computerized data banks of important scientific information (e.g., epidemiological, demographic, nutrition, weather, economic, crop yields, etc.).

(iii) Expert service centers for sophisticated and highly specialized methodologies (e.g., evaluation of organoleptic and nutritional quality of foods, toxicology, taxonomic identifications, consumer preferences, demographics, etc.).