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I. INTRODUCTION

The Agricultural Research Program (ARP) is administered by the National Institute for Food and Agriculture, (NIFA) – formerly Cooperative State Research, Education, and Extension Service – of the United States Department of Agriculture (USDA) and managed by North Carolina A&T State University (NCA&TSU) through the College of Agriculture and Environmental Sciences (CAES).

A. Purpose of Manual

The purpose of this manual is to provide guidelines for the management of the Agricultural Research Program supported by Evans-Allen funds. This manual is designed to be a reference source for project coordinators (PCs), principal investigators (PIs), supervisors/managers, research associates, research assistants, technicians and other personnel involved in conducting research supported by Evans-Allen funds.

This manual is updated periodically to reflect changes in University and College of Agriculture and Environmental Sciences research administration policies. The manual also will be revised in accordance with changes made by state or federal actions affecting the administration of Evans-Allen funds. The most current version of the manual can be accessed on the website:


Objectives:

The objectives of this reference manual are the following:

1. To increase understanding of the policies and procedures of the Agricultural Research Program.

2. To assist project coordinators and principal investigators with applying the program guidelines as they relate to the administration of their research projects and related activities.

3. To promote uniformity of application of policies and practices by faculty and staff of the Agricultural Research Program.

B. Authority of the Manual

The policies contained herein have been approved and endorsed by the chancellor of the University and are regarded as the official University policy pertaining to the management of Evans-Allen funds for research in the College of Agriculture and Environmental Sciences. The manual is designed to be consistent with the policies and procedures affecting the employment, retention, and dismissal of faculty as set forth in the various policy and procedural manuals governing University employees. The policies and procedures included in this manual became effective October 1, 1982 and have been revised March 1985, May 1991, March 2003, January 2010, January 2011, January 2013, and September 2016.
The Agricultural Research Program came into being after Congress passed P.L. 95-113, the “Farm Bill” in 1977. Evans-Allen funds were appropriated in Section 1445 of that legislation which provided permanent funds for the conduct of research in the food and agricultural sciences at the 1890 Institutions, Tuskegee University, and West Virginia University. The Cooperative State Research, Education, and Extension Service, (CSREES), since renamed the National Institute for Food and Agriculture or NIFA, a division of the United States Department of Agriculture, was designated to administer these funds.

The legislation further established that each eligible institution designates a chief administrative officer of the Agricultural Research Program (a research director) to be appointed by the president/chancellor of the institution. The research director is responsible for administering the program in accordance with USDA guidelines and the agricultural research objectives of the respective institution. For details of program management, see the following website:

http://nifa.usda.gov/program/agricultural-research-1890-land-grant-institutions

The research director has the primary responsibility for determining the need, priority, and scientific feasibility of the projects proposed. To accomplish this, the research director is responsible for developing a procedure, subject to USDA/NIFA approval, for project documentation, merit review, and selection. This procedure will assure that the research project proposals are scientifically sound, relevant to society’s agricultural and food needs, and not duplicative of efforts undertaken elsewhere.

Eligibility for funding is contingent on an institution having an approved set of projects consistent with the guidelines set by Section 1445. Funding for projects must be approved by USDA. Funding is allocated annually on a federal fiscal year basis.

C. Land Grant Mission
As a land-grant university, North Carolina Agriculture and Technical State University uses its academic skills and resources to improve the sustainability and welfare of individuals, families, communities and businesses involved with North Carolina agriculture. The College of Agriculture and Environmental Sciences was established to achieve this mission through three primary functions: (1) academic instruction, (2) Cooperative Extension; and (3) research. Each of these functions represents a major commitment on the part of the University to modernize the agricultural workforce, improve the efficiency and productivity of farm operations, and provide solutions to agriculture problems.

D. Mission/Goals of the Agricultural Research Program
The mission of the Agricultural Research Program in the College of Agriculture and Environmental Sciences involves the following: (1) to identify, seek solutions and have impact on current and emerging agricultural issues at the local, state, national and international levels, including the improvement of agricultural methods and products and the improvement of the lives and communities, especially of rural under-served and
under-represented groups; (2) to provide experiential learning opportunities for graduate and undergraduate students in the food, agricultural and environmental sciences; and (3) to articulate the meaning of science and technology in agriculture.

**Goals**

The Agricultural Research Program (ARP) has three major goals that guide its decisions concerning selection of funded activities and utilization of resources.

**Goal 1: Find solutions for current and emerging agricultural issues.**

*Six Program Initiatives* – The ARP in tandem with NIFA and CAES has identified six program initiatives that are focusing our faculty expertise and other resources on finding practical and effective solutions to agricultural issues and concerns:
1) Human and Community Development
2) Sustainable Energy (*Biotechnology and Biodiversity*)
3) Climate Change (*Water and Soil Quality*)
4) Food Safety (*Agromedicine Nutrition and Food Safety*)
5) Global Food Security and Hunger (*International Trade and Development/Small Scale Agriculture*)
6) Childhood Obesity

All CAES faculty and Cooperative Extension specialists serve on one or more of the interdisciplinary teams organized for the six program initiatives. College of Agriculture and Environmental Sciences has partnered with North Carolina State University to combine research initiatives as outlined in Appendix B and on the website:


**Goal 2: Develop capacity to effectively address current and emerging agricultural issues.**

To effectively address current and emerging agricultural issues, the Agricultural Research Program primarily uses its resources to support the development of any of the six program initiative areas identified in Goal 1. This is accomplished through providing faculty developmental support and resources, and by supporting the development of beginning researchers through mentoring by department chairs or other senior faculty. The ARP supports individual faculty, departmental and CAES program development by directing the use of Evans-Allen funding to develop lines of research and “track records” of publishing and measurable scientific and practical impact. Through this approach, the ARP uses Evans-Allen funds to not only implement a research program that addresses agricultural issues, but also one that increases the capacity to continue and expand promising research initiatives. *Evans-Allen funds are expected to be used for seed and development projects leading to successful funding from sources other than Evans-Allen funds.*
Faculty are encouraged and expected to seek other non-Evans-Allen funds to support their research, e.g. CBG, AFRI, NIH, NSF, DOE, DOD, Homeland Security, US AID, Department of Education, Stimulus (ARRA), etc.). Funding of new projects is based on:

- Evans-Allen’s budgeted allotment
- CAES program initiatives and USDA- NIFA priority areas being addressed by proposed project
- Resources requested for project, and
- Project’s proposed impact

**Collaboration** – Comprehensive and sustainable solutions to current and emerging agricultural issues can be achieved through collaborative relationships and partnerships. Faculty members are expected to collaborate with colleagues in their department, with faculty in other CAES departments and with colleagues across campus. In addition, research projects should involve the participation of staff from Cooperative Extension. Finally, partnerships with industry and agencies are essential for assuring application and use of completed research, so involvement with these entities is strongly encouraged.

**Goal 3:** Develop expertise and promote interest in current and emerging agricultural issues among faculty, staff, and students.

The ARP offers faculty development opportunities through on-going training and opportunities to improve research skills and expertise. Faculty research forums are held to promulgate interest among faculty, staff and students in current and emerging agricultural issues. These activities and opportunities also are designed to provide experiential learning opportunities for graduate and undergraduate students in the food, agricultural and environmental sciences. All ARP funded projects include paid or volunteer opportunities for students to be involved as research assistants.

**National USDA Priorities:**
USDA identifies problem areas for research on a national basis. The five national priority areas are listed below. These priorities are organized into programs based on the needs of the nation. The five priorities are:

1. **Global Food Security and Hunger**—NIFA supports new science to boost U.S. agricultural production, improve global capacity to meet the growing food demand, and foster innovation in fighting hunger by addressing food security for vulnerable populations.

2. **Climate Change**—NIFA -funded projects generate knowledge to develop an agriculture system that maintains high productivity in the face of climate changes. This will help producers to plan for and make decisions to adapt to changing environments and sustain economic vitality, and can take advantage of emerging economic opportunities offered by climate change mitigation technologies.

3. **Sustainable Energy**—NIFA contributes to the President’s goal of energy independence with a portfolio of grant programs to develop biomass use for biofuels,
designing optimum forestry and crops for bioenergy production, and to produce value-added bio-based industrial products.

(4) Childhood Obesity—NIFA-supported programs ensure that nutritious foods are affordable and available, and provide guidance so that individuals and families are able to make informed, science-based decisions about their health and well-being.

(5) Food Safety—NIFA food safety programs work to reduce the incidence of foodborne illness and provide a safer food supply by addressing and eliminating causes of microbial resistance to contaminants, educating consumer and food safety professionals, and developing food processing technologies to improve safety.

NC A&T State University and North Carolina State University have combined eight state-related initiatives to align with USDA-NIFA’s priorities. (Appendix B)

E. Implementation of the Agricultural Research Program
The research director for Evans-Allen funds at North Carolina A&T State University is the dean of the College of Agriculture and Environmental Sciences. The dean is assisted with the administrative responsibilities of the program by the (CAES) associate dean for research. The Agricultural Research Program is administered through the Office of Agricultural Research.

The chairperson of a given department is the project coordinator (PC) for all research conducted in that department. Individual faculty serve as the principal investigators (PIs and co-PIs) of the research conducted under the program. PIs have the responsibility of supervising no more than two projects, and monitoring all fiscal and program aspects of the same. Specific responsibilities for all project personnel appears in the section entitled “Responsibilities of Personnel.”

Annually, the Office of Agricultural Research submits a Plan of Work to USDA/NIFA. This plan of work lists the projects that the Agricultural Research Program plans to fund during the coming year. For funds to be allocated to a project, the project proposal must be reviewed and approved by USDA/NIFA. After receiving written approval for a specific proposal, the University is permitted to allocate resources to the project. It should be noted that not all projects approved by NIFA are funded. Allocation of funds is done at the discretion of the associate dean for research and the research director.

F. Organizational Structure of Office of Agricultural Research (see Appendix A)
Figure 1 shows the organizational structure of the Office of Agricultural Research. Staff members assist in the management of the Agricultural Research Program in the following areas: location of funding sources, editing and reviewing proposals, handling monetary issues and fiscal management, office management, and general assistance with all phases of the research proposal writing process.

G. Liaison with Division of Research Administration
The Office of Agricultural Research and the Division of Research and Economic Development (DORED) work closely to locate appropriate funding sources, to seek partnerships on and off campus, to assure proper budgeting procedures, to provide grant
writing training and support, and to seek adequate resources for research at the University and in the College of Agriculture and Environmental Sciences.

H. Merit Review of Evans-Allen Proposals
Each participating Evans-Allen institution is responsible for conducting a merit review of sponsored projects. These reviews cover the following:

- Ensure completeness of project proposal (all items in Appendix C should be included).
- Evaluate relevance of the proposed research.
- Evaluate quality and scientific value of the proposed research.
- Consider opportunities for cooperation with other individuals or units.
- Provide opportunity for the project leader to interact with reviewers and make adjustments as appropriate.
- Provide USDA/NIFA with an indication, project by project, that the process was followed.

II. STEPS IN DEVELOPING AN EVANS-ALLEN RESEARCH PROPOSAL

In order for a proposal to be accepted and forwarded for consideration for approval by USDA/NIFA, the applying researcher (PI) or team of researchers must complete the following:

A. Secure Initial Proposal Approval
A faculty member interested in submitting a research proposal should do the following:

- Consult with the department head and the Associate Dean for Research to determine if the project falls within the scope and objectives of the Agricultural Research Program of the College of Agriculture and Environmental Sciences.
- Identify the existing or needed human and physical resources for the implementation of the project.
- Determine that the proposed project can be successfully completed with the financial and other resources available.
- Principal Investigators with terminating projects who desire a new project must submit a Notice of Intent by March 1 of the terminating year (Appendix D). This notice must document all unsuccessful efforts to secure substantial funding. New proposals must focus on a new area that aligns with CAES/NIFA combined research initiatives.

B. Proposal Guidelines
A written proposal needs to address all proposal submission guidelines required for Evans-Allen funded projects. A proposal is not to exceed 20 pages (excluding logic model and references) using a 12-point Times Roman, Arial or similar font formatted for
C. Conduct Peer Review Process

Before submitting a completed proposal to NIFA, the proposal must be reviewed using the following procedure:

- The proposal must be reviewed by five reviewers: (1) the department chairperson, (2) the associate dean for research; and (3) three persons outside the department knowledgeable in or familiar with the area of research. In the event that the department chair is included in the proposal, another department chair will serve as a reviewer.

  The associate dean for research will select external reviewers from outside CAES and the university from a listing of knowledgeable scientists. The principal investigator may recommend reviewers to the department chairperson who will make the selection of the reviewers. If the department chair is included in the proposal, the associate dean for research will select the reviewers.

- Reviewers must provide a written appraisal which may be used in revising and improving the proposal. The review should be completed online at https://ncat.az1.qualtrics.com/SE/?SID=SV_1HYQDV8Ee9mCZAV. A sample of the review appears in Appendix E.

- The principal investigator must respond to all substantive review comments and provide a revised proposal to the associate dean for research. The PI is responsible for incorporating suggestions made by reviewers, but must give reasons for any substantive suggestions not included or addressed.

- The proposal is then reviewed by the associate dean for research who will determine if additional review and substantive revision is necessary. Upon acceptance by the associate dean, the proposal is submitted for budgetary review by the Office of Research and then transmitted to USDA/NIFA for approval review.

D. Complete Required Forms

- USDA/NIFA Forms. Samples of all forms required for proper submission of Evans-Allen proposals will be provided on the College of Agriculture and Environmental Sciences website at: http://www.ncat.edu/caes/agresearch/documents/index.html.

- Institutional Review Forms. Separate forms from the campus Division of Research that may be necessary to complete are forms dealing with human subjects, animal research, or recombinant DNA. These forms must be
submitted to the Division of Research and reviewed before the proposals can be sent to Washington for project approval.

- Internal Forms (AG-01 through AG-06). An internal set of forms must be completed and accompany the proposal when submitted to the Office of Agricultural Research. These forms ensure that resources requested are available and approved for use in the study. Forms are available in Appendix I and will be provided on the CAES website at: [http://www.ncat.edu/caes/agresearch/documents/index.html](http://www.ncat.edu/caes/agresearch/documents/index.html).

III. PROCESS FOR APPROVAL OF EVANS-ALLEN PROPOSAL

A. Submission to USDA/NIFA

After review and approval through the Office of Agricultural Research, the proposal is sent to USDA/NIFA for approval. NIFA approval is based on the scientific merit and the agricultural aspects; the budget is not reviewed by USDA/NIFA. **It should be noted that approval of the project from Washington does not mean that the project will be funded at the University.** Decisions on local funding and the level of funding are made at the University. The proposal title must be added to the annual Plan of Work submitted by the Office of Agricultural Research to Washington before it is reviewed by USDA/NIFA.

B. Agricultural Research Program Project Funding and Budgeting Decision-Making

After notification that a project is approved by USDA/NIFA, an internal budget process is conducted to determine allocation of approved funds. The decision for funding and the level of funding for the amount of requested funding of a particular project is based on availability of funds and is a joint decision of the department chair, the research director and the associate dean for research.

C. Award Letter and Budget Allocation

The principal investigator and the department chairperson are notified by letter by the associate dean for research of acceptance of a proposal and the project dates. Principal investigators of approved projects are expected to respond within 30 days of notification of their award that they accept the terms of the funding and will proceed to implement their project by the start date identified in the notification of award letter. In some instances, a revised scope of work may be required if funding is not sufficient to meet the original project objectives.

IV. FORMS REQUIRED RELATED TO FUNDING

A. Prior to Funding

In Spring 2013, the CRIS Forms website used by NIFA to perform project initiations, and reporting was closed. In its place NIFA instituted REEports – an all-in-one portal for managing project information. REEport is NIFA’s new grant and formula project initiation and reporting system, building on and replacing the CRIS web forms system. It implements the Research Performance Progress Report (RPPR), a standard progress report format that all Federal research agencies are required to use for research grant
reporting. REEport evolved from the recommendations that were made in the One Solution initiative business case. A user manual fully explaining the process can be found here: https://nifa.usda.gov/resource/reeport-guide-project-directors.

Consistent with past practices, in order for a proposal to be submitted to NIFA for approval, the following items must be included apart from the reviewed proposal:

- **Title** (120 characters or less) – the title is a succinct characterization of the focus and subject of study being performed. Do not include phrases such as “research on,” “investigation of,” etc. Do not use quotation marks or underscoring. Keep in mind that the title will be used for information retrieval searches, so including specific keywords that are as descriptive of the project as possible is important.
- **Performing Organization/Institution** – the organization that employs the scientist(s) conducting the research.
- **Performing Department** – the entity/section at the Performing Organization/Institution to which the principal investigator/project director is assigned and performs most of his/her duties and research.
- **Start/End Dates** – projects are generally funded for no more than three years, commencing on the first day of the federal fiscal year and ending on the last day of the fiscal year.
- **Project Participants** – estimated FTEs of all project participants (scientists, professional support, graduate students, technical support, undergraduate students, administrative and other).
- **Goals** (3200 characters or less) – a clear, concise statement of the project’s objectives.
- **Products/Outputs** (3200 characters or less) – these activities can be events, services or products that reach people, including conferences, workshops, field days, counseling, tutoring, surveys, publications, media products, etc.
- **Outcomes/Accomplishments** (3200 characters or less) – defined as a significant change in knowledge, action, or condition.
- **Audiences** (3200 characters or less) – include individuals, groups, market segments, or communities that will be served by the project.
- **Methods** (3200 characters or less) – ways in which the project will be conducted, with emphasis on the general scientific methods and any unique aspects or significant departures from usual methods.
- **Non-Technical Summary** (3200 characters or less) – sum up the importance of the research project in terms that general citizens can understand.
- **Keywords**
- **Classification** – projects entered in REEport must be classified according to standard classification elements which consist of a series of three classification areas as outlined in the NIFA classification manual located here: http://cris.nifa.usda.gov/manual.html.
- **Assurance Statement** – Institutions receiving NIFA funding for research are responsible for protecting human subjects, and providing humane treatment of animals.
Internal Processing Forms
An internal set of forms must be completed and accompany the proposal when submitted to the Office of Agricultural Research. The purpose of the forms is to assure that University resources are available as requested on the project. All required signatures must be obtained before the forms are submitted.

The Internal Processing forms include:

- AG-01 Collaboration with Cooperative Extension and Others
- AG-02 Intent to Use A&T Farm Land, Facilities, Livestock, Personnel
- AG-03 Involvement of Human Subjects
- AG-04 Intent to Use Laboratory and Equipment
- AG-05 Personnel Requirements
- AG-06 Communication Items
- AG-07 Appropriateness of Budget to Objectives/Available Funds

Forms are available in the Appendix I and will be provided on the College of Agriculture and Environmental Sciences website at: http://www.ncat.edu/caes/agresearch/documents/index.html.

B. During Project Implementation and Upon Termination

Project progress reports. Once a project has been approved and funded, the principal investigator is required by USDA to submit (electronically) an annual progress report via REEport. This report is submitted annually during the life of a project. This report must be scientific in nature and must include output activities, impacts/outcomes, any published articles, relevant participants, target audiences, products and project modification. The report is due in the Office of Agricultural Research at the end of the calendar year. This report is required regardless of the type of grant from USDA.

Project termination reports. A termination report is required at the conclusion of all projects. Termination reports are to be completed within 90 days of the project’s termination.

Progress/termination reports are to be reviewed and approved by the project coordinator (department chairperson) prior to submission to the Office of Agricultural Research. The information from these reports is entered into the USDA/NIFA technical database, which is available for on-line searching.

V. RESPONSIBILITIES OF PERSONNEL

A. Department Chairperson/Project Coordinator (PC)

A department chairperson’s role is one of leadership, guidance and coordination of all research in the department. The head of a department should be familiar with the objectives of a research project, monitor project staffing, and be involved in the evaluation of achievement of those objectives. These responsibilities include:
1. Approval of submission of proposals by departmental faculty and staff for funding through the Evans-Allen program.

2. Review and approval of project expenditures for purchases, travel and other goods or services.

3. Recommendation for approval or disapproval in the hiring of project personnel in accordance with University personnel policies.

4. Approval of emergency expenditures on behalf of the principal investigator.

5. Participation in performance evaluation of all departmental A&T faculty and staff.

6. Assurance of correct and timely submission of all research administrative documents.

7. Participation in the evaluation of achievement of project objectives.

8. Evaluation of annual progress reports to ensure they meet acceptable standards.

B. Principal Investigator (Scientist)(PI)
The principal investigator should be a full-time faculty member or a Research Scientist in a CAES unit and hold a terminal degree or equivalent, and preferably should be an experienced researcher. Some combination of training and experience is acceptable.

The principal investigator (PI):

1. Coordinates the research project with the department chair/project coordinator.

2. Consults with the project coordinator to identify:
   a. Space required for conducting the research.
   b. Technicians and other personnel to be recruited for the project.
   c. Necessary support services.
   d. Existing equipment, if any, that can be shared or used for the project.
   e. Other goods and services that may be required for the project.

3. Initiates the expenditure of approved funds.

4. Maintains up-to-date knowledge of the budget.

5. Ensures that funds are spent within the allotted timeframe and for approved purchases only.
6. Develops and implements changes as needed in project operations to facilitate progress of the research program.

7. Meets all reporting requirements of the Office of Agricultural Research, University administration and USDA/NIFA.

8. Maintains a current inventory of all equipment.

9. Uses project funds in accordance with state and federal “Use of Funds” regulations.

10. Follows state contractual arrangements in making purchases.

11. Promotes the research project and the University through:
    - Presentations at conferences and meetings of local, regional, national and international scientific organizations.
    - Publishing of scientific articles and papers, individually or co-authored in refereed scientific journals or recognized trade publications and in the research publications of the Office of Agricultural Research.
    - Assisting in motivating students associated with the project to develop scientific careers in agriculture and food areas.

12. Ensures that all project personnel have the necessary human subjects/animal use certifications.

13. Provides documentation for an annual review of the research study.

C. Co-Principal Investigator
   A co-principal investigator should hold a terminal degree or equivalent and should preferably be an apprenticed researcher.

   A Co-principal investigator (Co-PI):

   1. Works cooperatively with the PI to implement the research project objectives and activities.

   2. Provides leadership on specific tasks or goals critical to completion of the project.

   3. Provides supervision to designated staff and students involved in the project.

   4. Performs the duties and functions of the PI when the PI is not able to do so.
D. **Research Scientist**

A research scientist, an EHRA [Exempt from State Human Resources Act] position, must hold a doctoral degree with an acceptable combination of post degree training and work experience and a demonstrated record of research achievement. The period of employment is limited to the time period of the current Evans-Allen project, and the employee must generate 60% of his/her salary from non-Evans-Allen sources.

The research scientist:

1. Establishes a research program in the area of his/her expertise in one of the College of Agriculture and Environmental Sciences units.

2. Consults with the project coordinator to identify:
   a. Space required for conducting the research.
   b. Technicians and other personnel to be recruited for the project.
   c. Necessary support services.
   d. Existing equipment, if any, that can be shared or used for the project.
   e. Other goods and services that may be required for the project.

3. Initiates the expenditure of approved funds.

4. Maintains up-to-date knowledge of the budget.

5. Ensures that funds are spent within the allotted timeframe and for approved purchases only.

6. Develops and implements changes as needed in project operations to facilitate progress of the research program.

7. Meets all reporting requirements of the Office of Agricultural Research, University administration and USDA/NIFA.

8. Maintains a current inventory of all equipment.

9. Uses project funds in accordance with state and federal “Use of Funds” regulations.

10. Follows state contractual arrangements in making purchases.

11. Promotes the research project and the University through:
   - Presentations at conferences and meetings of local, regional, national and international scientific organizations.
• Publishing of scientific articles and papers, individually or co-authored in refereed scientific journals or recognized trade publications and in the research publications of the Office of Agricultural Research.

• Assisting in motivating students associated with the project to develop scientific careers in agriculture and food areas.

12. Ensures that all project personnel have the necessary human subjects/animal use certifications.

13. Provides documentation for an annual review of the research study.

14. Obtains external funding to support research and community based work

E. Research Associate
A research associate, an EHRA [Exempt from State Human Resources Act] position, must hold a master’s or terminal degree, or have an acceptable combination of training and experience and show sufficient research capability in the particular field. Appointment may be full or part-time with a concurrent faculty appointment. A part-time and concurrent faculty appointment cannot be more than a full-time equivalent as prescribed by the University. The period of employment is limited to the time period of the current Evans-Allen project.
The research associate:

1. Reports directly to the principal investigator or designated co-principal investigators and is responsible for completing project work as assigned by the supervising PI or Co-PI.

2. Is responsible for the day-to-day management of the research project and for establishing and maintaining an accurate reporting system as directed by the principal investigator.

3. Independently supports, develops, designs, or executes moderately complex research activities for a single or multiple research projects.

4. May participate in writing grant proposals or the facilitation of the grant writing process

5. Participates in formulating research methods and suggests options for improving quality and recommending solutions;

6. Contributes to publications, reports and draft manuscripts; may co-present results with PI at meetings and/or conferences;

7. Works independently to collect data and analyzes research results;
8. May be responsible for the operation of a specialized laboratory or research area within a department and/or project;

9. Carries out any other duties relating to the planned implementation of the project he/she may be asked to perform from time to time by the principal investigator or co-principal investigators.

F. Research Assistant
A research assistant, an EHRA [Exempt from State Human Resources Act] position, must hold a master’s degree or equivalent in his/her discipline area and may be an outstanding doctoral student who is teaching as a part of his/her apprenticeship. The period of employment is limited to the time period of the current Evans-Allen project.

A research assistant:

1. Reports to the principal investigator or his/her designee.

2. Performs project related tasks and activities as directed by the PI or Co-PI.

3. Independently supports, develops, designs, or executes fundamental research activities for a single or multiple research project(s);

4. May participate in formulating research methods and suggesting options for improving quality and recommending solutions;

5. Contributes to research publications, reports and draft manuscripts;

6. Works independently on collection of data and analyzes research results for certain aspects of a research project(s); and

7. Carries out any other duties relating to the planned implementation of the project he/she may be asked to perform from time to time by the principal investigator or co-principal investigators.

G. Post-Doctoral Scholar
The University’s policy on Postdoctoral Scholars state the following:

Postdoctoral Scholar (“Postdoc”) is a professional apprenticeship designed to provide recent Ph.D. recipients with an opportunity to develop further the research skills acquired in their doctoral programs or to learn new research techniques, in preparation for an academic or research career. North Carolina A&T State University embraces the principle of the National Academies’ Committee on Science, Engineering, and Public Policy (COSEPU) that “the postdoctoral experience is first and foremost an apprenticeship whose purpose is to gain scientific, technical, and professional skills that advance the professional career of the postdoc.” In the process of further developing their own research skills, it is expected that Postdoctoral Scholars will also play a significant role in the performance of research at the University and augment the role of graduate
faculty in providing research instruction to graduate students.

A postdoctoral scholar, an EHRA [Exempt from State Human Resources Act] works under the supervision of the PI who serves as a mentor for the scholar. Additional information related to the Postdoctoral Scholar is available at http://www.ncat.edu/hr/documents/policies/post-doc/post-doc-policy.pdf.

To request support for a Postdoctoral Scholar on an Evans-Allen project, PIs must submit a formal request to the Associate Dean for Research to include the following:

- Period of Appointment
- Justification
- Duties and Responsibilities
- A Mentoring Plan to include development goals for the scholar during the postdoctoral period, activities to accomplish the goals, and plans for evaluating progress.

H. Research Specialist
A research specialist, a SHRA [subject to state human resources act] position, must hold a bachelor’s degree or an equivalent combination of training and/or related experience in a discipline related to the research area. The period of employment is limited to the time period of the current Evans-Allen project. The range of duties includes, but is not limited to: project planning, experimental design, developing methodology, conducting procedures, modifying procedures as needed, data collection and analysis, laboratory management, project management, preparing publications and reports, and communication and instruction.

A research specialist:

1. May plan, develop, conduct and evaluate scientific research in a laboratory, clinic, field and/or teaching environment (hereafter referred to as “laboratory”).

2. Understands the context and implications of the research in order to apply and interpret theoretical knowledge necessary to conduct research in one or more scientific disciplines.

3. Demonstrates and model effective mental concentration, visual attention and manipulative skills. Work may include the training and supervision of staff, students and others in performing specific techniques or phases of experiments.

4. Carries out any other duties relating to the planned implementation of the project he/she may be asked to perform from time to time by the principal investigator or co-principal investigators.

I. Research Technician
A research technician, a SHRA [subject to state human resources act] position, must hold a high school diploma and directly related experience required to perform the assigned
duties. The period of employment is limited to the time period of the current Evans-Allen project. The range of duties includes, but is not limited to: conducting experiments, collecting and summarizing data, and providing proper laboratory/study subject care.

A research technician:

1. Supports experimental processes in a laboratory, clinic, field and/or teaching environment (hereafter referred to as “laboratory”).

1. Requires knowledge of applicable laboratory procedures, tests, techniques and terminology.

2. Carries out any other duties relating to the planned implementation of the project he/she may be asked to perform from time to time by the principal investigator or co-principal investigators.

J. Support Staff
This position, a SHRA [subject to state human resources act] position, requires clerical and computer skills and involves a considerable amount of public contact ranging from students and faculty to off-campus visitors. A graduate of a two-year college with a major in secretarial science and experience that will ensure a high level of performance in the duties and responsibilities described below, is preferred.

Administrative Support:

1. Reports directly to the project coordinator (department chairperson) or his/her designee

2. Handles correspondence related to research projects – filing and routing mail.

3. Assists with the paperwork associated with the administration of the research project and preparation of (purchase/travel requisitions, payroll authorizations).

4. Maintains a working knowledge of research, academic and University policies.

5. Assists with monitoring the funding levels and procedures related to project implementation.

6. Handles student payroll information and assists with student supervision as directed by the department chairperson.

K. Other Personnel
This category includes individuals who are responsible for supporting the day-to-day operations of the laboratories or farm. This includes undergraduate students.

These individuals:
1. Report to the supervisor designated by the principal investigator.

2. Performs project related tasks and activities as directed by his/her project supervisor.

L. Evaluation of Personnel: Consistent with university policies, all personnel should be reviewed annually. An annual performance evaluation is required for all EHRA and SHRA employees. The evaluation must be in writing, must be given to and signed by the evaluated employee, and each evaluated employee must have an opportunity to provide a written response to the evaluation. Any response will be attached to the evaluation and considered a part of the evaluation. Appropriate forms may be located on the Division of Human Resources website: http://www.ncat.edu/hr/forms/index.html.

VI. PROJECT MONITORING AND REPORTING

A. Project Monitoring and Project Plan Modification
   The project coordinator is responsible for monitoring the implementation, administration, and operation of a project in accordance with the plan presented in the project proposal. If a project’s plan requires significant modification such as a change in objectives or an exclusion of an objective, this action needs to be approved by the project coordinator and communicated to the Office of Agricultural Research for approval. Major changes in budget allocations and changes in personnel also must be approved by the project coordinator and reported on a timely basis to the Office of Agricultural Research. The principal investigator with the project coordinator’s review is responsible for submitting an annual achievement to the ARP.

B. Annual Project Review and Evaluation
   All funded Evans-Allen projects are to be reviewed annually to determine achievement of goals and objectives. These reviews are to be conducted at the end of the academic year to provide an assessment of progress or if a project is ending, as a termination review. The purpose of these reviews is to determine if the project has been implemented, administered, and operated in accordance with the plan presented in the project proposal. The review also covers evaluation of reported achievements and impacts and other aspects of the study including barriers to successful completion. The ultimate goal of the review process is to strengthen the research program, provide an opportunity for professional growth, and to provide support to the researchers.

   Each PI completes a form that appears in Appendix H. The completed form is submitted to the project coordinator. The CRIS form can be substituted, but must summarize efforts to secure new funding (if applicable).

   The following list includes key points to be addressed in the Annual Project Review report:
• Progress on each stated objective including reasons for non-implementation of specific objectives.

• Project conclusions (or preliminary results if project ongoing).

• Impact of project activities, findings, outcomes.

• Dissemination efforts of project activities, findings, outcomes.

• Listing of collaboration activities – who, what was involved, what was achieved.

• Efforts to secure new funding (if applicable).

• Student mentoring and research experience – describe what students have had the opportunity to learn and do as a result of their participation in the project.

• Capacity building – describe any impact the project has had in terms of the department, college, or University being in an improved position to attract funding and other resources, as well as any impacts in terms of improving the ability of to train faculty and students in techniques and skills in demand by the field, and/or impacts that the project has had in terms of securing equipment or other resources to conduct research or technical applications on issues affecting the agricultural community.

• Administration of project—including fiscal management, personnel management, timely submission of reports, and other aspects of management.

Progress and project termination reviews are to be made based on completion of the Annual Project Review Evaluation Form Report Form and other applicable material (e.g., reports, presentations, manuscripts) provided by the principal investigator. The completed report form and other applicable material are to be reviewed by the project coordinator, who is responsible for ensuring that the progress/termination review material is accurate and complete. The project coordinator will meet with each PI after reviewing the submitted form and materials. After review by the project coordinator, the form and any additional supporting materials are submitted to the associate dean for research for ARP review.

Within 60 days of receipt of the ARP Progress/Termination Report Form and any other applicable material, the associate dean for research is expected to complete an independent review of a project’s annual/termination report and convene a review meeting with the principal investigator, project coordinator, and other involved project participants, such as co-principal investigators (if appropriate), to discuss the project and any concerns identified in the review by the project coordinator and the associate dean for research. The result of this meeting is that one of four recommendations will be made: (1) Commendation for satisfactory project achievement/completion, (2) Support for continuation of funding, (3) Review of unsatisfactory performance, or (4)
C. Impact Statements
   Annually in mid-January, each project is required to provide the Office of Agricultural Research a statement of impact identifying the beneficial effect the project’s implementation has had on the field of agriculture, the university, CAES and/or agencies, companies, or individuals. These impact statements are to provide a brief synopsis of the measurable and meaningful contribution the project has made since its inception. These statements are to be based on actual accomplishments not intended goals or objectives. The general outline for an Impact Statement is provided in Appendix J.

VII. GENERAL POLICIES

A. Duration of a Project
   Normally, the average period approved for a project is three years. Continuation funding is reviewed annually and is dependent upon satisfactory progress. The dean/research director has the authority to redirect, extend or terminate a project when it is evident that satisfactory progress is not being made.

B. Extension of a Project
   Application for the extension of a project beyond the approved period is to be sent to the dean/research director by February 1st of the scheduled termination year. Any application for extension must have an up-to-date progress report and a justification for the extension prepared by the principal investigator. It should also have the support of the project coordinator and outline in detail the anticipated expenditures and the activities to be undertaken during the period of the requested extension. Complete form in Appendix Q.

   While project extensions are not encouraged, a project may be extended (automatic extension) for one year or less beyond the termination date, subject to approval of the dean/research director. Additional extensions must be approved by USDA/NIFA after proper justification.

C. Project Operations
   No expenditures should be incurred until the principal investigator receives a certified/or temporary budget from the Office of Agricultural Research. All purchases, payroll authorizations and other acquisitions must be done within the established regulations of the University and those of the state of North Carolina.

   To expedite the purchase of livestock at auctions, refer to Statement for Purchase of Live Animals for Research of the Business and Finance Purchasing Policies and procedures
D. Equipment Purchases
Prior to submitting a proposal, the principal investigator should identify equipment needed for successfully conducting the proposed study, and confer with the project coordinator and the associate dean for research. Every proposal that includes equipment acquisition must include a completed CAES Equipment Request Form (Appendix L). Accordingly, the budget accompanying the proposal should contain a list and the cost of such equipment. All equipment authorized for purchase in a given fiscal year must be requested between October 1 and June 30 of the current federal fiscal year. Funds allocated for equipment not purchased during this period may be diverted to other projects or program uses.

Additionally, the Office of Contracts and Grants has instituted guidelines for equipment acquisition. Equipment is defined as nonexpendable, tangible, personal property having a useful life of more than one year and an acquisition cost of $5,000 or greater. This threshold is consistent with the definition of equipment referenced in OMB circulars A-21 and A-110, University Accounting Procedures, and UNC-GA. For contracts and grants awarded prior to July 1, 1996 the threshold for equipment was $500 or more. For detailed information on the process, see Appendix M.

E. Supplies and Expendables
Except for feed, repairs, gasoline and other fuels, supplies and other expendables should be purchased by July 31 of the current fiscal year. Any adjustments due to price or invoice changes must be approved by the project coordinator and the Office of Agricultural Research.

In regards to the purchase of certain fuels, see Appendix P.

F. Travel
Travel should be undertaken in accordance with North Carolina A&T State University’s Travel Policies and Procedures.

Additionally, students who are not state employees are not permitted to drive state vehicles. Persons employed under 61110, 61210, 61310 or 61410 (i.e. graduate research and teaching assistants) may drive state vehicles as they are considered state employees. Special attention should be paid to the guidelines for use of motor vehicles purchased by Evans-Allen Funds (Appendix P).

G. Processing of Documents
All payroll documents, purchase requests and other documents of procurement and services are to be approved by the department chairperson prior to submission to the Office of Agricultural Research. Monthly cut-off dates established by the Office of Agricultural Research are to be observed in the processing of documents. (Student
payrolls are to be submitted to the Office of Agricultural Research at least 24 hours prior to the due date). Allow three working days for processing of project related documentation in the Office of Agricultural Research. The budget manager will forward all such documents to the dean/research director’s office for approval. The dean’s office will forward them to Business and Finance for further processing.

H. Time and Effort Certification (ECRT)
Time and Effort Certification is completed electronically for all persons employed or otherwise supported by Evans-Allen funds. Employees will receive an effort certification email and should click the Effort Certification link to login. It is recommended you use Mozilla Firefox or Google Chrome to launch the application. Additional instructions for completing the certification is available at [http://www.ncat.edu/research/dored/ecrt.html](http://www.ncat.edu/research/dored/ecrt.html). Failure to comply with certification in the ECRT® system by the date stated in the notification will result in a hold on funds. This hold will be placed on the account the next business day. With the exception of payments for students, all other expenditures (salaries, travel, equipment, materials and supplies) will be suspended until the certification is completed.

I. Budget Revisions
Budget revisions may be requested as necessary. However, it is suggested that this be kept to a minimum (maximum of two per year) for ease of recording in the Office of Agricultural Research and that of Contracts and Grants. All revisions are subject to the approval of the Associate Dean for Research.

J. Replacement of Principal Investigator(s) Upon Resignation or Other Reasons
If for any reason a principal investigator or other project personnel leaves the project (e.g., resignation or other), the associate dean in consultation with the project coordinator/department chairperson and the dean/research director will decide whether or not the individual should be replaced. The University property management office must conduct a complete inventory of project physical resources (equipment) before the individual is allowed to terminate his/her connection with either the project or the University.

In accordance with the Personnel Policies for Designated Employment Exempt from the State Human Resources Act North Carolina A&T State University (1981), EHRA non-teaching employees in covered positions shall be subject to the same provisions concerning sick leave, maternity leave, civil leave and military leave as are applicable to employees subject to the State Human Resources Act found in the Division of Human Resources Policies and Procedures.

K. Harmonization of Salary Scales
The salary for an individual to be employed under the State Human Resources Act (SHRA) is determined by the University personnel director, whereas the salary for an individual to be employed in a position that is exempt from the personnel act (EHRA) is determined by the CAES research administrators. In doing so, every effort should be made to harmonize salaries with qualifications and experience across projects and in
keeping with University guidelines. No principal investigator should offer a salary to any prospective employee on his/her project unless approved by the department chairperson, associate dean for research and research director/dean.

L. After-the-Fact Approval for Emergency Purchases

M. Procurement Card (PCard)/Petty Cash
Use of petty cash is highly irregular in the Office of Agricultural Research due to the introduction of the procurement card program. The purpose of the petty cash fund is to facilitate project operation and alleviate the burden placed on principal investigators to purchase small, urgently needed items from personal funds. Use of the petty cash fund is subject to prior approval of the associate dean for research and dean/research director. This fund is not to be used to facilitate after-the-fact purchases. (See statement for Petty Cash in the Business and Finance Purchasing Policies and Procedures http://www.ncat.edu/divisions/business-and-finance/purchasing/policies/petty-cash.html). The following criteria for petty cash expenditures have been established: $100.00 ceiling on purchases. Purchases must not violate state purchasing policies and procedures. Purchases must be of an emergency nature and/or for small items that do not lend themselves to the university’s purchase order system, small tools, chemicals, seeds and other such items to be used in research. No equipment will be purchased with petty cash. An appropriate explanation/justification must accompany each request. (Space provided on form). The fund must be operated at all times in compliance with the university’s fiscal policy, in addition to the following. Individual purchase cannot exceed $100.00. Only original receipts will be honored. No fines or fees resulting from the violation of any laws, statues, or regulations are allowed. The principal investigator must submit a petty cash request form to the Office of Agricultural Research for approval prior to making a purchase. A petty cash request form must be approved by the associate dean for research and dean/research director before funds can be disbursed. All items must be purchased within two days and settlement form submitted. Petty cash settlement forms must have receipts or other proof of purchase documentation attached in a neat manner. Any balance of unused funds must be returned to the fund administrator along with the petty cash settlement form. If for some reason more money is spent than was requested, it will be refunded at the time the settlement form is submitted.

The procurement card program has been established by the State of North Carolina to allow rapid purchase of low dollar goods, reducing paperwork and handling costs associated with the small purchase process. The A&T procurement card is essentially a standard credit card in which the liability rests with the University instead of the individual cardholder. (This is different from the American Express Corporate travel card, in which the liability is solely the cardholder’s.) The procurement card is issued to an
employee, empowering this person to purchase goods and services on behalf of the University. Under no circumstance may this card be used for personal purchases.

The procurement card operates the same as a purchase request but with more restrictions. PCard purchase requests (Appendix K) must be submitted and approved by the fiscal unit in the Office of Agricultural Research prior to any purchase. (No equipment, travel related expenses, personal memberships, etc.) All expenditures must be within the allotted budget limits. (Funds must be in place before expenditures are made). Use of the card should be limited to items listed in the guidelines contained at: 

N. University Personnel
North Carolina A&T State University is deeply committed to a policy of equal employment opportunity for all of its employees and applicants. The University actively seeks and employs qualified persons in all job categories and administers all personnel actions affecting employees without regard to race, color, religion, gender, sexual orientation, age, national origin, physical or mental disability, or status as a disabled or veteran of the United States Armed Forces.

The principle of the equal employment opportunity applies to all aspects of the employment relationship, including:
- Initial consideration for employment,
- Job placement and assignment of responsibilities,
- Evaluation of performance,
- Promotion and advancement,
- Compensation and fringe benefits,
- Access to training and other professional development opportunities,
- Formulation and application of personnel rules and regulations,
- Access to facilities and services,
- Layoff and recall from layoff, and
- Discipline and termination.

The University’s Affirmative Action policy also reaffirms the commitment to nondiscrimination in the employment of the disabled, Vietnam-era veterans, and disabled veterans. Questions or concerns about equal employment or affirmative action should be addressed to the Division of Human Resources, or the Affirmative Action Office, or visit these websites:
http://www.ncat.edu/hr/index.html
http://www.ncat.edu/hr/policies/index.html

O. New Hires
When the principal investigator identifies the need for a new hire (scientist, professional, technical and/or assistants), he/she should meet and discuss these personnel needs with the department chairperson. The Office of Agricultural Research should then be contacted with a request to fill the position and to verify that there is funding for the
position. The period of employment is limited to the time period of the current Evans-Allen project.

To hire employees subject to the State Human Resources Act (SHRA), the University employment procedures must be adhered to and must comply with the University guidelines and Senate Bill 886. The recruitment and selection of SHRA and EHRA employees is completed through the PeopleAdmin electronic system http://www.ncat.edu/hr/peopleadmin_7/index.html. All applications are completed using the online process in PeopleAdmin at https://jobs.ncat.edu. For more detailed information on the SHRA employment procedures, visit: http://www.ncat.edu/hr/policies/index.html.

To finalize the hiring process for EHRA positions, payroll documents (EHRA internal payroll authorizations with supporting documents) must be completed. Details related to completing a new hire packet are located at http://www.ncat.edu/hr/rec-staffing/recsel/index.html. For SHRA positions, the E-1 must be completed and is located on the Division of Human Resources website at http://www.ncat.edu/hr/rec-staffing/recsel/index.html.

The payroll documents are to be signed by the principal investigator and department chairperson, and forwarded to the Office of Agricultural Research. The Office of Agricultural Research will forward the payroll documents to the dean’s office. Once approved by the Dean, the payroll documents will be forwarded to the respective University offices. No individual should report for work prior to official notification from the Division of Human Resources for SHRA employees or from the Dean’s or Provost’s Office for EHRA employees.

P. Postdoctoral Scholars
The employment of post docs in the Agricultural Research Program is encouraged; however, approval prior to hiring must be obtained from the department chairperson and the associate dean for research. **The period of employment is limited to the time period of the current Evans-Allen project.**

To request support for a Postdoctoral Scholar on an Evans-Allen project, PIs must submit a formal request to the Associate Dean for Research to include the following:

- Period of Employment
- Justification
- Duties and Responsibilities
- A Mentoring Plan to include development goals for the scholar during the postdoctoral period, activities to accomplish the goals, and plans for evaluating progress.

Employment past the specified time period is dependent on funds available from projects other than Evans-Allen and approval by the department chairperson and the associate dean for research. Any deviation from this policy will be handled on an individual basis. University policies regarding postdoctoral scholars are available at: http://www.ncat.edu/hr/documents/policies/post-doc/post-doc-policy.pdf.
Q. Undergraduate/Graduate Student Pay
   Freshman and sophomore undergraduates on Evans-Allen projects are hired at an hourly rate of $8. Junior and senior undergraduates are hired at an hourly rate of $10. Undergraduate Research Scholars are hired at an hourly rate of $12. All undergraduates are limited to working no more than 15 hours per week except those working on the farm; these students may work up to 20 hours per week. Graduate students are hired at an hourly rate of $15 and can work no more than 20 hours per week.

   Graduate students, as of Fall 2015 are paid up to $8000 per semester. There can be no exceptions! If not enrolled in the University during summer months, a 40-hour work week is acceptable. For more detailed information, see the ARP Student Employment Policies in Appendix G. Depending on the availability of funds, budgets may include support for up to two graduate and two undergraduate students (including Undergraduate Research Scholars).

R. Discipline and Separation
   It is the intent of North Carolina A&T State University to provide for its employees and management a fair, clear and useful tool for correcting and improving performance problems, as well as to provide a process to assist management in handling cases of unacceptable personal conduct. For more detailed information on the SHRA Disciplinary Action Policy and the EHRA Separation Process, visit the University websites at: http://www.ncat.edu/hr/perf-mgmt/index.html.

S. Employment Termination
   Upon notice of termination of employment, the individual should follow the guidelines as set forth in the Faculty Handbook and at http://www.ncat.edu/hr/policies/index.html.

T. Grievance
   The normal procedure as outlined in University regulations will be followed.

U. Agricultural Communications
   Agricultural Communications employs a variety of media techniques and strategies to help staff in the Agricultural Research Program and the Cooperative Extension Program communicate with diverse audiences. The unit offers services in writing, editing, photography, design, videography and Web-based technologies. Agricultural Communications can assist with creating all types of printed materials, the production and creation of audio and video materials and using the Web for education, information and promotion. The unit is available to assist with media training and using the media to communicate messages. The unit also offers communications training for customers to help them become more proficient at using modern communication tools.

   The communications unit produces a wide variety of media materials designed to help college personnel do a better job. The unit can assist scientists and researchers in packaging project results for use by the general public, and in making sure that stakeholders are aware of research and extension work and see the work is relevant to solving some of the state’s problems and issues. Effective communications require a
careful blending of subject matter, knowledge and media skills. The unit’s major goal is effective communications among media staff, principal investigators and subject matter Extension specialists. Another goal is to produce high quality materials and deliver them on time. Only high quality materials are likely to attract the attention of research and Extension offices and to deliver messages with desired impact. For communications assistance, call the Office of Agricultural Communications at 285-4712. Specific guidelines on procedures for production of research publications and other materials are included in Appendix I—Form AG-06. Please fill out a communications check-up form if your proposed project will include any print or electronic communication media as part of its deliverables, including such things as video, curriculum, fact sheets, brochures, new web content, photography, etc.

V. Publications Using Data from Evans-Allen Projects
The Agricultural Research Program will arrange payment for page charges and related expenses for manuscripts published in research journals.

W. Manuscripts
Manuscripts should contain the following acknowledgement:

\textbf{Acknowledgement}
\textit{The research in this paper was funded through the National Institute for Food and Agriculture of the United States Department of Agriculture, Project No. NCX-XXX-X-XX-XXX-X, in the Agricultural Research Program, North Carolina Agricultural and Technical State University.}
Appendix A
Organizational Chart
## Appendix B

### NIFA COMBINED RESEARCH INITIATIVES

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<th>NCSU and NCA&amp;T</th>
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<td><strong>Global Food Security</strong> and Hunger (PLANT)</td>
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### NIFA supports new science to boost U.S. agricultural production, improve global capacity to meet the growing food demand, and foster innovation in fighting hunger by addressing food security for vulnerable populations.

- Plant systems research, including genetics, with beneficial implications for human wellbeing...
- Animal systems research, including genetics, with beneficial implications for human wellbeing...
- Animal production systems and health
- Engineering solutions
- Food product development, processing and quality
- Economic systems

- NIFA-funded projects generate knowledge to develop an agriculture system that maintains high productivity in the face of climate changes. This will help producers to plan for and make decisions to adapt to changing environments and sustain economic vitality, and can take advantage of emerging economic opportunities offered by climate change mitigation technologies.
- Environmental solutions for traditional, small-scale and limited resource users
- Providing solutions to environmental issues which are practical for small-scale farms and communities with limited resources...
- Enhancing soil, water and air quality to promote wetland and wildlife habitat preservation and restoration...
- Understanding carbon footprints for

### NIFA contributes to the President’s goal of energy independence with a portfolio of grant programs to develop biomass use for biofuels, designing optimum forestry and crops for bioenergy production, and to produce value-added bio-based industrial products.

- Bio-fuels
- Bio-mass
- Bio-fuels substrates and conversions
- Bio-energy
- Bio-based industrial products
- Energy Conservation
- Engineering solutions
- Economic systems

### NIFA supported programs ensure that nutritious foods are affordable and available, and provide guidance so that individuals and families are able to make informed, science-based decisions about their health and well-being.

- NIFA food safety programs work to reduce the incidence of foodborne illness and provide a safer food supply by addressing and eliminating causes of microbial resistance to contaminants, educating consumer and food safety professionals, and developing food processing technologies to improve safety.

- Promoting health and safety in communities that depend on agricultural and natural resource-based industries...
- Farm, forestry and agribusiness safety
- Processing for food safety
- Safe handling of foods
- Fresh produce food safety
- Meat and related products safety
- Engineering solutions
- Economic systems

### Socioeconomic, infrastructure, and public policy analyses for fully optimizing human capital and strengthening communities...

- Alternative enterprises, niche markets, innovative farm-based businesses and environmentally sustainable production systems...

- Helping disadvantaged rural communities create economic growth by becoming players in the global marketplace...
- Economic systems
- Families and communities
- Youth development
- Creating business opportunities
- Understanding community processes
- Understanding public policy processes

### Integrated research in genetics and genomic sciences, biochemistry, toxicology, biology using a variety of organisms as models will yield responses and approaches to improve the health, nutrition and well-being of humans and their environment through improved nutrition of fruits and vegetables, reduced susceptibility to disease through nutrition and new vaccine technologies, and enhanced effectiveness of plant derived components.

- Integrated research in metabolomics, biochemistry, pharmacogenomics, breeding and postharvest management and processing
- Human nutrition and health
- Plants for human health
- Vector borne diseases
- Genetics and human health
- Disease solutions
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<th>Global Food Security and Hunger (ANIMAL)</th>
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<th>Sustainable Energy and Biotechnology</th>
<th>Childhood Obesity</th>
<th>Food Safety Agromedicine and Food Safety</th>
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- NIFA
- NCSU-A&T
Appendix C

Evans-Allen Proposal
Outline and Guidelines for Proposal Development

The following addresses the sections that are required for completion of an Evans-Allen proposal application. A proposal is not to exceed 20 pages (excluding logic model and references) using a 12-point Times Roman, Arial or similar font formatted for standard letter-sized paper with one inch margins and 1.5 line spacing.

Title
Present a brief, clear, specific summation of the subject of the project. The title used by itself should communicate the objectives and scope of the project. Title may not exceed 82 characters (spaces included).

Impact
Identify the likely beneficiaries of the findings of the project and describe how the expected outcomes will be translated for use by stakeholders.

Connection to CAES Research Initiatives
Identify which of the combined NCA&T and NCSU research/NIFA initiatives the project proposal address(es). Describe how the proposed project contributes to the advancement of the designated initiative(s) and the specific expected outcomes of the project that would directly support the initiative(s). See Appendix B.

Connection to Previous Work by the PI(s)
Describe how the proposed project connects to previous work conducted by the PI, co PIs, and/or other CAES researchers and how it will build upon this previous work.

Literature Review
Present a review of literature that includes recent and relevant work that supports the aim or objectives of the project.

Objectives/Scientific Approach
Present a rationale for the need for project; indicate why the project is distinct or different from other work. Include a description of the research objectives (question(s))/hypotheses that will be addressed through experimental or non-experimental comparison, by assay, or other analysis.

Procedures/Methodology
Provide a clear description of the research design and/or a plan for how the aims of the study will be achieved. Include a description of the (1) sampling plan, (2) data collection measures and procedures, and (3) how the data will be analyzed. Also, indicate if the project includes a pilot development stage.

Expected Outcomes
Present a description of the project’s expected outcomes.
Implementation Capacity
Indicate the status of the availability of all essential instrumentation, equipment, personnel, and other support needed for the successful conduct of the project. Identify the roles and responsibilities of all essential personnel and partners on the project. Provide explanations of all budget items and amounts. (Complete forms AG-04 - *Intent to Use Laboratory and Equipment* and the *CAES EQUIPMENT REQUEST FORM*).

Involvement of Scientists/Stakeholders Outside of CAES
Describe the specific contributions on the project expected from scientists and/or others not identified as co-PIs or from within the School of Agriculture and Environmental Sciences.

Connection to Cooperative Extension
Describe the specific contributions of NCA&T or other Cooperative Extension personnel identified either as co-PIs, collaborators, or consultants on the project. (Complete form AG 01 - *Collaboration with Cooperative Extension and Others*).

Involvement of Students
Provide details of specific student roles and responsibilities.

Probable Duration (Timetable)
Provide an estimate of the maximum time likely to be required to complete the project and publish results. Include a timetable for conducting the project that identifies all important milestones and dates as they relate to the execution of the project.

Facility Resources
Identify all facilities - buildings, labs, farm acreage, etc. required for project (complete forms AG 02 - *Intent to Use A&T Farm Land, Facilities, Livestock, Personnel & AG 05 - Personnel Requirements*).

Institutional Units Involved
Each department/unit contributing essential services or facilities to the project should be identified; the responsibilities/contributions of each should be indicated. If there is an advisory, coordinating, or directing committee for the project, the official title of the committee should be listed.

USDA Collaboration
Note any project involvement or connection with the U.S. Department of Agriculture or other stations, institutions, or agencies that are expected to cooperate formally or informally on the projects. If a project is part of a regional project, list the regional research project number.

Personnel
Provide a listing of all project personnel with a brief description of their duties/responsibilities.
Project Budget & Budget Narrative
Estimate annual allotments (by funds) to salaries (percent of effort), supplies, travel, printing and binding (publication costs), equipment, maintenance, and other operating expenses. A budget template is available from the budget manager in the Office of Agricultural Research to complete this component of the proposal.

Note: Instructional faculty cannot exceed 25% effort per Evans-Allen project. Research faculty and research scientists may not release more than 50% of their time to teach.

Logic Model
Include a Logic Model that conforms to the model outline provided by NIFA (Appendix S).

NOTE: Project Modifications
If there is need to make a substantive change in the objectives of a project, a new or revised project outline should be prepared and submitted. A major change in procedure might also necessitate a revision of the project outline.
Appendix D
Notice of Intent to Submit
Evans-Allen Proposal

NOTE: This form is to be completed by faculty with a current Evans-Allen project that is slated to terminate on September 30 (current year). Complete and return the form by March 1 (current year).

The individual noted below hereby notifies the Office of Agricultural Research of their intent to submit a proposal for funding consideration in FY__________:

PRINCIPAL INVESTIGATOR:

PROJECT TITLE (if known):

DATE SUBMITTED:

Complete the following to verify that alternate funding sources were fully exhausted. Check the appropriate box—by double clicking—for each funding attempt (and/or fill in agency name). Attach supporting documents for each applicable source (i.e. notice of rejection, receipt of proposal that’s still under review, etc) that reflect efforts to obtain new funding streams were fulfilled.

☐ National Science Foundation
☐ USDA – _______________________
☐ USDA – AFRI
☐ USDA – SARE
☐ Homeland Security
☐ Department of Defense
☐ _______________________
☐ USDA – Capacity
☐ USDA – SERD
☐ Department of Energy
☐ _______________________

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Appendix E
Evans-Allen Proposal Reviewers’ Instructions/
Proposal Peer Review Form

Note to Reviewers

The purpose of your review is to provide the Associate Dean for Research of College of Agriculture and Environmental Sciences (CAES) assistance with making a judgment about the appropriateness and quality of the attached proposal for receiving Evans-Allen funding. This funding is intended to provide research scholars initial and/or continuing funds to support a research study or program that addresses one of the School’s research initiatives, is consistent with the goals of NIFA, and represents a potential contribution to agricultural science or related disciplines.

As a reviewer you are being asked to provide your honest professional assessment of the proposal on a range of evaluation attributes including its scholarship, potential for measurable impact, advancement of knowledge related to agricultural science, and practicality of being successfully completed by the identified research team, identified resources (equipment and expertise beyond the research team), and time frame.

The value of your assessment will be based on a complete and honest review of the attributes identified in the review. Please keep in mind that high ratings of a proposal that does not meet the aims or quality requirements of Evans-Allen funding will likely contribute little to the achievement of the research initiatives of CAES or advance the development of the PI(s)’ research agenda and scholarship. Conversely, low ratings may not necessarily mean that a proposal lacks merit for consideration for funding. Such ratings may help the PI(s) address weaknesses in the proposal that result in a much stronger and more impactful project.

Please complete the attached form by reading each evaluation statement and assigning a rating representing your estimation of completeness (Large to No(ne) Extent) that the material in the proposal addresses each of the identified proposal component categories. Also, in order to assist both the Associate Dean and the PI(s) we ask that you provide comments indicating some basis for your rating. These comments will not be identified as coming from you but may be excerpted to be shared with the PI(s) as feedback and suggestions for revision or other changes.

Ratings of the proposal and comments on its quality and merit are very important. You represent a significant peer to the PI(s) and your knowledge of the field and research experience can provide exceptional guidance regarding the merits of the proposal. Please know that the content of your evaluation will be taken very seriously and will play a large part in determining if the proposal should be considered for funding. Your time and participation in this review process is greatly appreciated.

Click on this link complete your review.
Evans-Allen Proposal Peer Review Form

Project Title: ________________________________________________________________
____________________________________________________________

Principal Investigators: ___________________________________________________________________

CONNECTION TO CAES RESEARCH INITIATIVES
1. Does the proposal describe a research question or issue that has current relevance or importance to an identified area of agricultural research?

Large Extent □ Moderate Extent □ Limited Extent □ None □

Comments: _______________________________________________________________________

CONNECTION TO PREVIOUS WORK BY THE PI(S)
2. Does the proposal describe how the proposed research supports the aims of the NC A&T Agricultural Research program?

Large Extent □ Moderate Extent □ Limited Extent □ None □

Comments: _______________________________________________________________________

SCIENTIFIC APPROACH AND LITERATURE REVIEW
3. The need for the project is established through review and discussion of relevant research, the practice literature, and other sources of research support evidence (i.e., pilot studies, unpublished work).

Large Extent □ Moderate Extent □ Limited Extent □ None □

Comments: _______________________________________________________________________

4. The project’s aim(s) represent goals that are sufficiently distinct from any recent reported work by other researchers investigating the same or similar project topic.

Large Extent □ Moderate Extent □ Limited Extent □ None □

Comments: _______________________________________________________________________

5. The proposal includes research question(s)/hypotheses that will be addressed through experimental or non-experimental comparison, or by assay or other analysis.

Large Extent □ Moderate Extent □ Limited Extent □ None □

Comments: _______________________________________________________________________

36
METHODOLOGY

6. The proposal provides a clear description of the research design and/or a plan for how the aims of the study will be achieved.

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<tr>
<th>Large Extent</th>
<th>Moderate Extent</th>
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Comments:

7. The proposal provides a clear description and explanation of the intention to conduct pilot and/or preliminary data collection and/or to develop data collection procedures prior to full stage testing of research questions or hypotheses.

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<th>Large Extent</th>
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Comments:

8. The proposal provides a clear description of the sampling plan for how subjects/participants/samples will be selected for comparison and/or analysis.

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<tr>
<th>Large Extent</th>
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</table>

Comments:

9. The proposal provides a clear description of the data collection measures and procedures that will be followed.

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Comments:

10. The proposal provides a clear description of how the data will be analyzed for purposes of addressing the research question(s)/hypotheses.

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Comments:

11. The proposal includes a time line that provides sufficient detail of planned objectives and a reasonable time frame for achieving each objective and the major tasks of each objective.

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</table>
EXPECTED OUTCOMES
12. The proposal provides a clear description of the outcomes the PI(s) expect(s) the project to achieve.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

IMPLEMENTATION CAPACITY
13. The proposal identifies the source and/or the connection to all essential instrumentation, equipment, personnel, and other support that is needed for the successful conduct of the project.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

14. The proposal identifies the roles and responsibilities of all essential personnel and partners on the project.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

15. The proposal provides sufficient explanation of budget items and amounts.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

IN INVOLVEMENT OF SCIENTISTS/STAKEHOLDERS OUTSIDE OF CAES
16. The proposal identifies and describes specific contributions on the project expected from scientists and/or others not identified as co-PIs or from within the School of Agriculture and Environmental Sciences.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

CONNECTION TO COOPERATIVE EXTENSION
17. The proposal identifies and describes specific contributions of NCA&T or other Cooperative Extension personnel identified either as co-PIs, collaborators, or consultants on the project.

Large Extent  Moderate Extent  Limited Extent  None
INVolvEMENT OF STUDENTS
18. The proposal identifies and describes specific student research activities.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

19. The proposal identifies specific learning objectives for students employed as student research assistants.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

IMPACT
20. The proposal includes a clear description of the likely beneficiaries of the findings of the project.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

21. The proposal provides a clear description of how the expected outcomes will be translated for use by stakeholders.

Large Extent  Moderate Extent  Limited Extent  None

Comments:

LOGIC MODEL
22. The proposal includes a Logic Model that conforms to the model outline provided by NIFA:
   http://www.csrees.usda.gov/about/strat_plan_logic_models.html

Large Extent  Moderate Extent  Limited Extent  None

Comments:

RECOMMENDATIONS
☐ Accept
☐ Return for minor revisions and re-review
☐ Return for major revisions and re-review
☐ Proposal is not sufficiently developed for funding
SUMMARY OF NEEDED REVISIONS

OTHER COMMENTS

__________________________________________ Revised February 2014
Appendix F  
Checklist for Proposal Review by Project Coordinator

<table>
<thead>
<tr>
<th>AREA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>• Does the proposed research fit within the scope of the PI’s research program?</td>
<td></td>
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<tr>
<td>• Does cost exist in the proposal that is not reimbursable from Evans-Allen Funds?</td>
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<tr>
<td>• Is the principal investigator familiar with and have credentials related to the scientific field in the proposal?</td>
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<tr>
<td>• <em>What impact will this proposal have on future teaching loads in the department and how will this be handled?</em></td>
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<tr>
<td>• Are there tangible indicators of successful research results in the proposal?</td>
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<tr>
<td>• How long after a project is initiated should results be available?</td>
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<tr>
<td>• Is there a conflict with state and federal regulations on the part of the principal investigator in conducting the research?</td>
<td></td>
</tr>
<tr>
<td>• Is the purpose or objective of the research proposal consistent with overall objectives of the department?</td>
<td></td>
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<tr>
<td>• If animals are involved with the research project, does the care and handling of such animals comply with State and Federal Regulations?</td>
<td></td>
</tr>
<tr>
<td>• <em>If human subjects are involved, has approval been obtained from the University “Human Subjects Committee”?</em></td>
<td></td>
</tr>
<tr>
<td>• Is the proposal within the policy guidelines of the University?</td>
<td></td>
</tr>
</tbody>
</table>
Personnel

- List by title all other grants, contracts, or projects in which the principal investigator, technician, secretary, and support labor are presently participating. State the percentage of time/effort of each individual devoted to each project. (ADD EXTRA SHEET AS NEEDED)

- Does the project require NEW personnel, including a post-doc?

- Does the project involve another institution? Has contact been made?

- Does the project involve Extension and has the PI discussed this with the Extension Administrator?

- Are students going to be employed in this project? Indicate type of student, percentage of time/effort and salary per hour.

- Has the principal investigator completed all necessary reports (funding and progress) related to previous or current projects?

- Are the personnel salaries in harmony with those of other research and University personnel salaries?

- Can personnel from other projects be utilized for this project?

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Project Grant No:</th>
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<tbody>
<tr>
<td></td>
<td>Funding:</td>
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<td></td>
<td>% of Time/Effort:</td>
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<tr>
<th>Project Name:</th>
<th>Project Grant No:</th>
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<tbody>
<tr>
<td></td>
<td>Funding:</td>
</tr>
<tr>
<td></td>
<td>% of Time/Effort:</td>
</tr>
</tbody>
</table>

Scientific Equipment

- Can existing scientific equipment be used for this project? Is the new piece of equipment community property? Where will the equipment be housed?
<table>
<thead>
<tr>
<th>Facilities/Space Requirements</th>
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</thead>
<tbody>
<tr>
<td>• Does the proposed research require additional space?</td>
</tr>
<tr>
<td>▪ Describe in detail the physical space requirement.</td>
</tr>
<tr>
<td>▪ Is this space presently available for use? If so, where is it located?</td>
</tr>
<tr>
<td>▪ Are renovations of any type needed for the space required? If so, describe in detail the estimated cost and anticipated source of funds for these renovations.</td>
</tr>
<tr>
<td>• Does the proposal necessitate any special steps on the part of the department/University, such as safety measures against special hazards, special license, acceptance of special responsibilities? If so, describe the needs.</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Services and Supplies</th>
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<tr>
<td>• If the project requires special services and furniture and office equipment that normally are not available, describe and list the estimated cost for each item.</td>
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</table>
Appendix G
Agricultural Research Program Student Employment Policies
(Undergraduate and Graduate)

OVERVIEW
To enhance the learning experience, the Agricultural Research Program provides employment opportunities for undergraduate and graduate students on various research projects. Student employees can make valuable contributions by performing services/tasks that might not be economically feasible in hiring a full-time employee. But it must always be emphasized that a student employee should be a student first and employee second! In an effort to provide uniformity in student employment practices across CAES research activities, the following guidelines have been developed.

DEFINITION
Only full-time students (graduate or undergraduate) can be approved for employment on a research project. An undergraduate student is defined as one enrolled in undergraduate study for a minimum of twelve credit hours during each of the fall and spring semesters. Graduate students must be enrolled with a minimum of nine credit hours for each of the fall/spring semesters.

GPA ELIGIBILITY
In all cases students must be in good academic standing in their respective departments. Undergraduates must maintain a minimum 2.75 on a 4-point scale while graduates must have a 3.0 on a 4.0-point scale. A student who does not meet these minimum GPA requirements cannot be employed on any CAES research activity; no exceptions.

If a student (graduate or undergraduate) enrolls as a full-time student for the semester, but is forced to drop a course and falls below the required minimum, that student must not be allowed to continue employment until such time as the basic requirements are met. The student can request an appeal based on hardship. However, the student cannot resume work until payroll authorization is approved by the department chairperson, associate dean for research and University personnel.

JOB DESCRIPTIONS
In order to accurately classify a position for student employment, a detailed job description should be provided. Among the items that should be included in the position description are:

- Degree of supervision required – Is direct supervision required or does work involve some independent decision making skills?
- Minimum knowledge and skills required – Does student have sufficient classroom knowledge/academic coursework to perform required tasks?
- Does the job facilitate learning outside the classroom – Does work activities enhance future development/skills?
- Complexity of tasks – Does work involve complex tasking involving discretion and good decision-making skills or does it consist of routine/repetitive tasks?
WORKING HOURS
At the beginning of each semester, an approved class schedule must be on file in both the offices of principal investigator and department chairperson. Students are not permitted to work when a schedule indicated the student should be in class.

Students employed on a project are not permitted to work more than 20 hours per week during the fall and spring semesters. No work is permitted during holidays or University-schedule closures. Students enrolled in summer courses are eligible to work no more than 20 hours per week. Students not enrolled during the summer, but successfully completed the prior spring semester as a full-time student may work a 40-hour work week provided the student is registered as a full time student for the upcoming semester. The first date students can begin a 40-hour work week during the summer is the start of the first Monday after the spring semester ends. All hiring is contingent upon the availability of adequate funding.

International students are not permitted to work more than 20 hours per week regardless of fall/spring/summer status. There can be no exceptions in accordance with Code of Federal Register: 8 C.F.R. 214.2 (f) (9) (i):

(9) Employment — (i) On-campus employment. On-campus employment must either be performed on the school’s premises, (including on-location commercial firms which provide services for students on campus, such as the school bookstore or cafeteria), or at an off-campus location which is educationally affiliated with the school. Employment with on-site commercial firms, such as a construction company building a school building, which do not provide direct student services is not deemed on-campus employment for the purposes of this paragraph. In the case of off-campus locations, the educational affiliation must be associated with the school’s established curriculum or related to contractually funded research projects at the post-graduate level. In any event, the employment must be an integral part of the student’s educational program. Employment authorized under this paragraph must not exceed 20 hours a week while school is in session, unless the Commissioner suspends the applicability of this limitation due to emergent circumstances, as determined by the Commissioner, by means of notice in the Federal Register, the student demonstrates to the designated school official (DSO) that the employment is necessary to avoid severe economic hardship resulting from the emergent circumstances, and the DSO notates the Form I–20 in accordance with the Federal Register document. An F–1 student may, however, work on campus full-time when school is not in session or during the annual vacation. A student who has been issued a Form I–20 A-B to begin a new program in accordance with the provision of 8 CFR 214.3(k) and who intends to enroll for the next regular academic year, term, or session at the institution which issued the Form I–20 A-B may continue on-campus employment incident to status. Otherwise, an F-1 student may not engage in on-campus employment after completing a course of study, except employment for practical training as authorized under paragraph (f)(10) of this section. An F-1 student may engage in any on-campus employment authorized under this paragraph which will not displace United States residents. In the case of a transfer in Student and
Exchange Visitor Information Services (SEVIS), the student may only engage in on-campus employment at the school having jurisdiction over the student’s SEVIS record. Upon initial entry to begin a new course of study, an F–1 student may not begin on-campus employment more than 30 days prior to the actual start of classes.

DEPARTMENT RESPONSIBILITY
Each department/area should have a written policy that includes procedures for recording work hours, reporting absences and tardiness, discipline, breaks and student supervision. Student falsification of time records is grounds for immediate dismissal. Any student who is dismissed on these grounds cannot be employed again in CAES research activities.

PAY RATES
Freshmen and sophomores have a pay rate of $8 per hour, while juniors and seniors are at $10 per hour, and Undergraduate Research Scholars are paid $12 per hour. The graduate rate is $15 per hour or $8000 per semester.

CAES research student employees must have payroll forms submitted to the Office of Agricultural Research at least two days prior to the date they are due in Contracts and Grants as set by the University’s payroll schedule.

TERMINATION
The supervising PI should monitor the student employee on a regular basis to evaluate adequate work performance. A constructive critique should be given and documented. Poor performance is adequate grounds for termination; but a student employee should also know they may be terminated at any time.
Appendix H
FY 2016-17 Annual Project Review

DOUBLE CLICK on the box(es) below to insert a check mark that best represent your selection(s). Report due Friday, April 17th.

Report Period: □ 1st Year □ 2nd Year □ 3rd Year □ Extension Year
Report Type: □ Progress Report □ Termination Report

Project Name: ____________________________________________
Principal Investigator: ______________________________________
Other Investigators: _________________________________________
Department: ________________________________________________
Date Project Initiated: _______________ Projected Termination Date: _______________

Directions: Please address the questions below. USE COMPLETE SENTENCES IN PARAGRAPH FORM AND LIMIT REPORT TO 5 PAGES. Keep responses concise and write in laymen’s language (non-technical). The principal investigator should complete this form with assistance from other investigators (as needed or appropriate).

1. Project Description
Please give a snapshot of the overall issue or problem that the project is addressing. (This should match what was presented in the approved project proposal, but may include enhancements and clarifications given what has been learned as a result of work on the objectives).

2. Progress on Objectives
Describe the status of completion of work on each objective included in the approved project proposal. If an objective has been changed or no longer applicable, or has been added, discuss the reasons for these changes. Discuss the progress made on each objective and any reasons an objective has not yet been completed or may not be completed successfully. Indicate the personnel supported by your project and their contributions to each objective.

3. Budget Changes and Expenditures
Discuss any significant budget modifications, particularly any changes related to achievement of objectives or support for project faculty, staff, or students. In your discussion indicate/identify all personnel supported by your project and the status of your expenditures for personnel and operations.

4. Findings (Input/Activities)
Describe the important findings or outcomes that the project has achieved. Relate the findings/outcomes to the problem or issue for which the project was developed to address.
5. **Impact**
Describe the impact or “potential impact” that the project had or will have on the issue for which the project was developed to address. Impact refers to a change in something, action or behavior. Relate findings/outcomes to practical changes or differences that implementation and/or completion of the project has had on the field of agriculture.

6. **Collaboration**
Describe the collaborative relationships established for the implementation of this project. Identify the role each collaborative relationship has had in terms of the objectives involved and each collaborative partner’s contribution. Explain what, if any involvement with Cooperative Extension.

7. **Student Involvement** *(for period October 1, 2015 - September 30, 2016)*
Describe how students have been involved in the project including their responsibilities, learning opportunities, and contributions to the project and dissemination of its findings. List all students who participated in the project. Briefly discuss their responsibilities and learning opportunities. *(Right click on any row to add additional data).*

<table>
<thead>
<tr>
<th>STUDENT</th>
<th>UNDERGRAD/GRAD</th>
<th>RESPONSIBILITIES</th>
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8. **Special Concerns**
Describe any special circumstances or conditions that need to be considered in relation to the achievement status or progress of this project. Include issues with personnel, equipment, and intrusions by the School or University.

9. **Capacity Building**
Describe how this project has contributed to the research capacity of the respective department, CAES, and/or the university. Identify what has been established or enhanced as a result of this project and how that will affect future research, student instruction or service to the agricultural community.

10. **Outputs** *(for period October 1, 2016 - September 30, 2017)*
List the titles and authors of any papers or presentations connected with the project. Include the source, location (if a presentation), and date to which the paper or presentation was submitted, published, or presented. Include awards/recognitions from professional societies/organizations. *(List the author’s last name, first name, title of document, publication name, volume number and year. If listing a presentation, include the presenter’s last name, first name title of presentation, conference event name and date.)*

11. **Continuation Plans**
Discuss your plans for continuation of this project or for a project based on the findings/outcomes of this project.
12. Outside Funding Efforts (for period October 1, 2016- September 30, 2017)
Describe and list any efforts made to obtain non Evans-Allen funding to support the project’s objectives. Include a summary of funding sources applied for or have communicated with a program officer regarding submission of a proposal or negotiation of a contract. (Right click on any row to add additional data).

<table>
<thead>
<tr>
<th>GRANT TITLE</th>
<th>FUNDING AGENCY</th>
<th>$ AMOUNT REQUESTED</th>
<th>DATE</th>
<th>FUNDING OUTCOME</th>
</tr>
</thead>
</table>

13. Outside Funding Sources Available
Identify funding sources that are available that could potentially be a source of support for your research. Indicate the granting agency and the program.

14. Miscellaneous
Add anything not covered above that you feel is important to the success of this project.
Appendix I
INTERNAL FORMS

COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES
AGRICULTURAL RESEARCH PROGRAM

AG-01 (Collaboration with Cooperative Extension and Others)
AG-02 (Intent to Use A&T Farm Land, Facilities, Livestock, Personnel)
AG-03 (Involvement of Human Subjects)
AG-04 (Intent to Use Laboratory and Equipment)
AG-05 (Personnel Requirements)
AG-06 (Communications Items)
AG-07 (Appropriateness of Budget to Objectives/Available Funds)
(to be completed by ARP accountant)

Purpose and Directions:

The purpose of the attached forms is to allow for a systematic review of various aspects of your proposal to the Evans-Allen program. These forms must be completed and submitted to the Agricultural Research Program office before final evaluation of your proposal can be completed. These forms are internal to the Agricultural Research Program.

Once the project and the forms are reviewed and approved, any changes in the plans as described must be approved in writing through the Agricultural Research Office.
COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES
AGRICULTURAL RESEARCH PROGRAM

INTERNAL REVIEW FORM AG-01
*Collaboration with Cooperative Extension and Others

TITLE OF PROPOSAL: _________________________________________________________

PRINCIPAL INVESTIGATOR: _________________________________________________

DATE: ____________________________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. Have you collaborated with persons from Cooperative Extension on our campus?
   □ YES
   □ NO

2. If yes, describe the nature of your collaboration with the Cooperative Extension personnel. (see description of collaboration below)

3. If no, explain why not.

4. Have you collaborated with persons from Cooperative Extension from other campuses?
   □ YES
   □ NO

5. If yes to question 4, describe the nature of your collaboration with the Cooperative Extension personnel from other campuses.

6. Describe the extent of collaboration with persons across campus, within CAES, and industry/agencies.
*Collaboration can vary in type and degree:

**Networking:** General discussion of topic, confirming that topic is driven by need of audiences

**Partnering:** Jointly producing a product or event such as a bulletin, workshop, etc.

**Cooperating:** Sharing resources and results, working together.

**Collaboration:** Working cooperatively on an activity where both parties share responsibility and credit for the outcome.

Signature of PI: ____________________________________________

Signature of Collaborators: ___________________________________
(or attach letter documenting their involvement)
TITLE OF PROPOSAL: ________________________________________________

PRINCIPAL INVESTIGATOR: __________________________________________

DATE: ____________________________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. Indicate if you plan to use any of the following at the A&T farm, please check:
   - [ ] Land
   - [ ] Facilities
   - [ ] Livestock
   - [ ] Personnel
   - [ ] Do not plan to use the farm

   For each checked item, answer the related questions:

2. LAND
   a. Explain the amount and location of land you plan to use. Refer to A&T map for location of plots. (Map is on wall in B17 C. H. Moore).
   b. How will the land be used? Describe the plantings, location of building, etc.
   c. Will the land be usable when the project is finished?
   d. If you plan to locate a building, is the infrastructure available to handle the building (electricity, water, etc).
   e. Is the building and related costs contained in the proposal? If not, how will this be accomplished?
   f. Will you require assistance in tilling, etc. of the plots?
g. What is the timeline on plantings, or use of space by animals?

h. Do you have a technical assistant written into the proposal to assist with this project? If so, explain.

3. FACILITIES

a. What facility do you plan to use?

b. For what purpose?

c. Does the facility currently exist?

   YES □    NO □    Are funds included in the proposal or coming from some other source?

d. Do you have a technical assistant written into the proposal to assist with this project? If so, explain.

4. LIVESTOCK

a. Are you planning to use existing livestock?

b. Are you planning to buy livestock? If so, is there space to house the livestock? Is there feed and other care included in the proposal?

c. If you are buying livestock, what will happen to the livestock once the project is over?

d. Do you have a technical assistant written into the proposal to assist with this project? If so, explain.

5. PERSONNEL

   Will the project require assistance from the existing farm personnel? And if so, to what extent?
6. SPECIAL FARM EQUIPMENT

a. Overall, will you need special farm equipment to complete the project?

b. If so, how will you provide the equipment?

c. What role will your project play in maintaining the equipment?

Signature of PI: __________________________________________________________

APPROVALS:
____________________________________________________________________

Signatures indicate that the above requests for A&T Farm land, facilities, livestock and related personnel are approved and can be provided if proposal is funded.

Farm Manager (Leon Moses)

Farm Supervisor: (Dr. Ralph Noble)

Department Chairperson

Associate Dean for Research: (Dr. Valerie L. Giddings)

or

Associate Dean for Extension/Extension Administrator: (Dr. Rosalind Dale)
COLLEGE OF AGRICULTURE AND ENVIRONMENTAL SCIENCES
AGRICULTURAL RESEARCH PROGRAM

INTERNAL REVIEW FORM AG-03
Involvement of Human Subjects

TITLE OF PROPOSAL: __________________________________________________________

PRINCIPAL INVESTIGATOR: ____________________________________________________

DATE: _____________________________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. Does the proposal involve the use of human subjects?
   □ YES (if yes, answer questions below)
   □ NO

2. Have you obtained the Human Subjects Certification through the test on the Division of Research website?
   □ YES
   □ NO (must obtain before submitting proposal)

   If no, why not? __________________________________________________________

   Signature of PI: __________________________________________________________

N.C. A&T is committed to compliance with the National Institutes of Health, “Principles for the Care and Use of Laboratory Animals,” “The Guide for the Care and Use of Laboratory Animals,” the “Guide for the Care and Use of Agriculture Animals in Agriculture Research and Teaching,” the provisions of the Animal Welfare Act, and the Good Laboratories Practice Act.

The university established an Institutional Animal Care and Use Committee (IACUC) to review activities involving the use of vertebrate animals for research, teaching, production, demonstration, or other use. Procedures of this committee and related forms can be found at: http://www.ncat.edu/research/dored/compliance-ethics/iacuc/index.html
TITLE OF PROPOSAL: ________________________________________________

PRINCIPAL INVESTIGATOR: ____________________________________________

DATE: __________________________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. Does this project require the use of a laboratory? YES □ NO □

2. If yes, where is the laboratory located? ________________________________

3. Does the laboratory require any type of renovations? YES □ NO □

4. If yes, give a brief explanation and an estimated cost. _________________
   ___________________________________________________________________

5. Is this cost included in your proposal’s budget? YES □ NO □

6. Does the laboratory require additional equipment? YES □ NO □

7. If yes, what type of equipment is needed? ______________________________

8. Can this equipment be used for future research? YES □ NO □

9. What is the estimated cost for additional equipment? _________________

10. Is this cost included in the proposal’s budget? YES □ NO □

Signature of PI: _______________________________________________________

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TITLE OF PROPOSAL: ____________________________________________________________

PRINCIPAL INVESTIGATOR: ______________________________________________________

DATE: ______________________________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. List the persons who will be involved in this research. Give name, position title and percentage of time to be spent on project.
   a. EHRA
      
   b. SHRA
      
   c. Graduate Research Assistants
      
   d. Undergraduate Students
      
2. Will this project require the hiring of additional personnel? _________________

3. If yes, give position title and a brief job description.

4. Is this cost included in your proposal’s budget? ________________

Signature of PI: __________________________________________________________________

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The Agricultural Communications team is dedicated to providing research faculty with professional media – graphic design, photography, videography, writing and editing, web development, and more – that will accomplish your desired communications goal.

Please fill out a communications check-up form if your proposed project will include any print or electronic communication media as part of its deliverables, including such things as video, curriculum, fact sheets, brochures, new web content, photography, etc.

This Ag Communications Project Planner Form is therefore provided as a means to assist faculty in requesting communications materials or publicity for their programs and projects. The development of effective communication materials – whether curriculum, video, web presence, press release, brochure, pamphlet or poster – involves collaboration between the subject matter experts (faculty) and communications experts in the Agricultural Communications and Marketing Services team. The form enables researchers to be proactive in determining what, if any, communication tools may be required before, during and at the conclusion of the proposed research endeavor. Once a communications project is initiated, the form is also referred to and used to update and track progress. The form may be accessed online at:

TITLE OF PROPOSAL: ________________________________

PRINCIPAL INVESTIGATOR: ________________________________

DATE: ________________________________________________

Directions: Answer all questions and obtain appropriate signatures.

1. What is the total cost of the budget? ________________

2. What is the amount of the proposal being replaced? ________________
   This is related to discontinuing projects within the department.

3. Are the costs in line with funding from Evans-Allen? ________________

4. Are there unknown costs not discussed in the narrative?

5. Is the budget in proper form?

6. What revisions are necessary?

7. What is the average project cost for the department? ________________

Signature of Accountant: _________________________________________

(Adonica Williams)
Appendix J
Impact Statements

What Is Impact?

- Impact is change or potential change in one or more key areas:
- Impact is the reportable, quantifiable difference, or potential difference, that your program makes in real people’s lives
- It reports payoffs and benefits to society. The focus is on public—not internal or personal—benefit. It’s the answer to. “What’s in It for Me”?

Why Impact statements are important?

- Accountability
- Might be the only representation of the quality of work we do
- Serve as a comparison to other institutions

Write for the Audience

- Who is your audience?
  - Funding agencies, administrators, state, federal, and local decision makers, supporters
- What do they want?
  - Easily understood information that is quickly accessible
  - A brief summary in lay terms that highlights the difference your program is making for the public good
  - Concisely summaries what you did to achieve the difference
  - Clearly states payoff to society
  - Answers key questions: So what? Who cares? Why?
- How will they use your statement?
  - Paraphrases it for inclusion in reports and presentations

How to Report Impact?

- Problem or objective
  - Why should people care and who is affect by the problem?
- Program (optional)
  - Name the project, if it will be recognizable to your audience
- Participants
  - List every institution and academic unit involved
- Partners (optional)
  - Name other institutions, agencies, businesses, if others are involved
- Action taken (effectives impact statements)
  - Provide quantifiable evidence of change or difference the program made. (It really is all about the money. Audiences want to know the return of investment.)
    - Give other evidence
    - Realistically project potential benefit for work in progress
    - Provide only enough detail to be easily understood.
    - Highlight public benefits, outcomes, payoffs.
- Program impact or conclusion
Preferable quantifiable data directly resulting from the project

If above isn’t available, a logical result of the action then, which addressed the problem in objective stated

- Write a strong “why” or issue/problem statement:
  - Do a Google search to quantify the problem.
  - Use reliable sources – Center for Disease Control, EPA, USDA, etc.
  - Find “why” details in research grant proposals.

- For difficult impacts – basic research, emerging issues, 4-H, FCS, academics – try:
  - Anecdotes
  - If x then y statements – potential impacts

******************************************************

SAMPLE IMPACT STATEMENTS

**Farmers Grow Higher Revenue Generating Crops**
NIFA funded scientists in North Dakota developed three barley cultivars which are recommended for malting and brewing by the American Malting Barley Association. The two-rowed malting barley cultivar Conlon was grown on 18% of the North Dakota barley acreage (265,000 acres). Since Conlon is a malting barley, it commanded on average a $1.25 premium over feed barley. In 2009, this resulted in Conlon generating an additional $23 million in revenue for North Dakota growers that grew this cultivar.

**Return on Investment**
The Colorado State University (CSU) Extension Wheat Improvement Work Team provides 18% of the total investment in developing and promoting CSU wheat varieties. Plantings of improved wheat varieties increased Colorado farmers’ farm gate income by $12,840,000 in 2008. Extension’s share (18%) of this impact for the Colorado wheat industry is $2,311,000, or about $13.70 returned for each $1.00 invested.

**More Efficient Bio-refineries**
Improved conversion of lignocellulosic biomass into biofuels is a high priority national research goal that will enhance national security, balance of trade, rural employment opportunities, and the nation’s environmental performance, including net reductions in CO₂ emissions. NIFA funded scientists in Georgia developed a new chemical reaction that converts waste biomass lignin into high-value chemical components that will make bio-refineries more efficient and effective. This new reaction will yield high-value, renewable, chemical components derived from lignin. The new products can be used in a variety of products that are currently dependent on petroleum-based resources, as well as improve modern ethanol conversion programs.

**Research Aims to Improve Child Nutrition**
About 12% of the U.S. population do not consume enough zinc in their diets and are at risk for marginal zinc deficiency. NIFA funded researchers at Oregon State University found that rats fed even marginally zinc-deficient diets had more DNA damage, increased levels of oxidative stress and decreased ability to repair DNA compared to control animals fed diets containing adequate levels of zinc. Impairment of DNA integrity can adversely impact immune function and increase risk for cancer. This study has important implications for child nutrition because infants and children are more likely to suffer from marginal zinc deficiency than adults.
Appendix K  
Procurement Card Purchases

Date: 

PI: 

Department: 

Card Holder: 

Banner Fund #: 

Banner Account #: 

Vendor: 

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<th>Items to be Purchased</th>
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Total: 

Explain how purchase will be used: 

Approved: 

PI ___________________________  Budget Manager ___________________________

Department Chairperson ________

Not Approved: 

Department Chairperson ___________________________  Budget Manager ___________________________

Reason Not Approved: ___________________________

Send to awill@ncat.edu
Phone: 285-4706

Emergencies: If the Department Chairperson is out of the office his/her designee may sign for him/her
Appendix L
CAES EQUIPMENT REQUEST FORM
($500 and Above)

The amount of equipment purchased by the Office of Agricultural Research has increased considerably in recent years. We have learned that there has been duplication of seldom used equipment. Requests have also been made through state, facilities and other budgets. The Analytical Lab in Carver Hall was established to aid researchers in their analysis. Duplicative or underutilized resources put undue strain on research budgets. It would be more cost effective to send some samples to other labs that can do rare analysis. We must ensure that the equipment purchases are warranted and funds are efficiently used. Also, please keep in mind that rarely used equipment must be made available to other scientists. In addition, any discarded equipment must be disposed of using University policies and procedures (property management). Failure to properly report surplus or obsolete equipment will result in discrepancies in your annual inventory and possible loss of funds to repair existing equipment, or purchase new equipment.

Please complete this form in terms of how it applies to either a current research project or one that you are submitting a proposal for.

1. Type of Equipment
______________________________________________________________________________________

2. Commercial Name
______________________________________________________________________________________

3. Manufacturer/Supplier
______________________________________________________________________________________

4. Need for the Equipment (What will it be used for”)
______________________________________________________________________________________

5. If the samples can be done in the Analytical Lab, explain why you are requesting this purchase for your use?
______________________________________________________________________________________

6. Does this equipment currently exist in your department or in CAES?  □ Yes  □ No  □ Don’t know.

7. If yes to Q6 – If the equipment is in CAES, why are you requesting a separate unit?
______________________________________________________________________________________

8. If existing equipment is not in working order – Does this request replace existing equipment?
   □ Yes  □ No

9. Why is replacement versus repair necessary?
______________________________________________________________________________________

10. What is the life expectancy of the equipment and use value after the project is terminated?
______________________________________________________________________________________

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11. Which is more cost effective, to use the services of an outside vendor or purchase this particular equipment?

☐ Purchase by CAES  ☐ Outside vendor

If using an outside vendor would cost less, explain why the purchase of this equipment is needed.

______________________________________________________________________________________

______________________________________________________________________________________

12. How often will the equipment be used by you and your project?

______________________________________________________________________________________

13. In which department or lab will this equipment be located (identify room/lab number)?

______________________________________________________________________________________

14. Will students be using this equipment on their own? ☐ Yes ☐ No

15. Is equipment safe for student use? ☐ Yes ☐ No

______________________________________________________________________________________

16. What supervision will be provided for the use by students?

______________________________________________________________________________________

______________________________________________________________________________________

17. What is the estimated cost of purchase (include all peripherals, installation, and necessary supplies)?

______________________________________________________________________________________

18. Does the vendor provide service and support? ☐ Yes ☐ No

If maintenance contract is required, what is the annual cost?

______________________________________________________________________________________

19. Are there any training costs to use the equipment? ☐ Yes ☐ No

If yes, what is the estimated cost?

______________________________________________________________________________________

20. Has a request for this equipment been made to any other source? ☐ Yes ☐ No

If so, identify the source (including proposal, facilities funds, state academic budgets, etc.)

______________________________________________________________________________________

______________________________________________________________________________________

NOTE: If additional room is needed to explain any item please attach supplemental sheet with each item number identified

Thank you for completing this form.

Requestor

Department

Revised September 2016
Appendix M
Office of Contracts and Grants
Equipment Acquisition and Management

PURPOSE

The purpose of this statement is to provide guidance that Colleges/Schools/Departments/Units should follow in accounting for equipment purchased from a sponsored award.

Equipment – nonexpendable, tangible, personal property having a useful life of more than one year AND an acquisition costs of $5,000 or greater. This threshold is consistent with the definition of equipment referenced in OMB circulars A-21 and A-110, University Accounting Procedures, and UNC-GA. For contracts and grants awarded prior to July 1, 1996 the threshold for equipment was $500 or more.

Note that equipment can further be categorized as either general purpose or special purpose equipment.

Supplies – expendable property having a useful life of one year or less or an acquisition cost of less than $5,000.

Equipment fabrication – when multiple items which could be classified as supplies (some having an acquisition costs of $5,000 or <) are purchased to create/fabricate an integrated unit of equipment having a total value of $5,000 or more. In these instances, the individual purchase should be budgeted and accounted for as equipment. Fabrication does not include the replacement or upgrading of existing equipment or components and these cost items are to be budgeted and charged as supplies.

Note that if an award does include the fabrication of equipment, the College/School/Unit is responsible for requesting a change from the standard equipment code to one for fabrication.

GENERAL GUIDELINES/APPLICABLE POLICIES

A. Acquisition Guidelines

1. University Purchasing Procedures:

The Principal Investigator and/or assigned personnel assisting in the acquisition of the equipment must adhere to University purchasing procedures (See Purchasing Policies & Procedures).

2. Screening Prior to Purchase:
The Office of Management and Budget (OMB) Circular A-110, Subpart C Section 44 requires equipment screening in an effort to avoid purchasing unnecessary items. This screening must be undertaken prior to issuing a purchase requisition for the equipment. The University has established the following guidelines for equipment screening:

A. The principal investigator is required to screen on a University-wide basis for availability of equipment costing $25,000 or more. The Equipment Screening form (Form EPS1) should be completed and forwarded to the University Property Management Office. Upon receipt of the signed EPS1 form from property management, the requisition can be entered into Banner. The completed ESPI form must be attached to the purchase requisition to confirm compliance for audit purposes.

Additional screening requirements may be necessary for specific agencies. Please see award documentation for more detail.

B. Government–Furnished Property (Equipment)

This category includes:

1. Equipment acquired under federal contracts that are governed in accordance with FAR 45.5, Government Property and

2. Property furnished by the federal government to the University/principal investigator.

Equipment transferred to the University and governed according to FAR 45.5 must be recorded in the Capital Assets Management System. A copy of correspondence related to the transfer of government property to the campus is to be forwarded to the Office of Contracts and Grants.

In most cases title to federally owned property that is used by the University during the award period vests with the government. Title and disposition of government property is to be administered in accordance with FAR 52.245-5 Alternate I. Disposition and final title vestment instructions are provided by the Office of Sponsored Programs.

3. Inventory Control:

The principal investigator and the appropriate support personnel are responsible for maintaining and updating records of equipment accountable under each award.

4. Disposal of Equipment:
Equipment purchased under a contract or grant may provide for title to vest with the University. The conditions or agreement cited in the award document must be reviewed to determine if the government does or does not intend to retain title. For projects in which title to equipment vests with the University, normal University regulations related to trade, transfer or disposition must be followed. (See Purchasing and Property Management Section)

For sponsored awards that provide for the title to remain with the government, prior written approval must be received from the appropriate funding agency prior to the trade, transfer or disposition of equipment.

Note: OMB Circular A-110 allows the federal government to transfer and otherwise provide disposition instructions on all items of equipment. The equipment shall be appropriately identified in the award or otherwise made known to the recipient. Disposition instructions will be issued by the sponsoring agency within 120 days of receipt of a final equipment inventory.

5. Equipment Not in Approved Proposal/Budget

Formal approval is normally required from agencies (occasionally delegated to the Office of Contracts and Grant) prior to purchasing equipment if not listed in the approved proposal/budget. The principal investigator may want to compile a list of all anticipated equipment for a one-time approval in order to reduce the paper work and time involved in approving each piece of equipment separately.

6. Office of Naval Research (ONR)

Complete DD Form 1419 for equipment purchased from sponsored awards administered under the cognizance of ONR. Contact the Office of Sponsored Programs for Form 1419 and instructions for completing.
### Appendix N

**Equipment Pre-acquisition Screening**

Principal Investigator  
Funding Agency  
Banner Fund Number  

1. Equipment Item(s) identified in the proposal and approved budget.

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<th>Costs</th>
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2. Request is Made to purchase the following item(s) not indicated in the proposal or budget.

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<th>List Items</th>
<th>Costs</th>
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**NON AVAILABILITY CERTIFICATION**

University Screening: (Required for all equipment $25,000 or more).

The items described on this form have been screened by the Property Management Office against the idle inventory of North Carolina A&T State University and is hereby certified as not available.

__________________  ____________________  
Property Management Office  Date  

---

EPS.1  
Revised July 1, 2009
Appendix O
Purchase of Gasoline, Lubricants and Other Fuels

Procurement
By means of established bidding procedures, the farm manager will procure fuel, motor oil and other lubricants through the farm budget subhead for motor vehicle supplies. This object code of the farm budget will be replenished by means of local transfer of funds from the research administrative account to the farm account.

Dispensing Fuel
Only authorized vehicles will be fueled from supplies maintained on the farm premises. These include tractors, trucks, various power machinery and vehicles assigned to research projects supported by Evans-Allen funds. Purchase of gasoline or other fuels will be done at the farm through the standard purchase order process for approved vehicles.

The farm manager or his designee will be responsible for servicing vehicles at the farm pump. An invoice will be prepared at the end of the month which notes the following:
- date
- type of vehicle
- license number
- fuel quantity and price
- type of fuel
- account number to be charged

This invoice will be submitted and approved by the business manager. The original invoice will be forwarded to accounts payable with copies going to the farm manager and budget manager.

Accountability and Transfer of Funds
The farm manager will keep an updated account of fuels on hand, and will re-order whenever necessary.

Purchase request for fuels will be made through the regular channels for a minimum of one month’s estimated requirements, but not for more than three months at a time. The internal purchase order serves to inform the farm manager that the purchase is authorized in the amount and period covered.
Appendix P

Policy for Motor Vehicle Purchases and Maintained by Evans-Allen Funds

1. A vehicle bought with Evans-Allen funds or acquired through the Federal Excess Personal Property Program (FEPP) remains in the overall jurisdiction of the Agricultural Research Program and the research director/designee may assign the vehicle(s) to departments and/or projects as applicable.

2. The research director/designee may reassign the vehicle if or when the project is closed out, or if for good reason it becomes necessary to do so before termination.

3. Vehicles purchased for a project should be for the common use of project personnel and as directed by the principal investigator and approved by the research director.

4. Maintaining the vehicle in good running condition is the responsibility of the principal investigator or his/her designee and he/she should ensure that neglect does not lead to abnormal deterioration of the vehicle.

5. The users of vehicles purchased and maintained by Evans-Allen Funds should be familiar with and be guided by the general state policy and the of the University on transportation as outlined on the website (http://businessfinance.ncat.edu/BUSMGR/PURCHASE/TRAVEL8.HTM).

6. Each vehicle should carry a log book in which the following should be recorded each time the vehicle is used: beginning mileage (speedometer reading), fuel, amount of other substances bought, and mileage (speedometer reading), number miles traveled, purpose of trip, signature and date.

7. It will normally be expected that a vehicle be returned to its parking site on campus after it has been used.

8. Fuel for vehicle used for agricultural research should be purchased at the farm pump in accordance with the procedures outlined in Appendix D of this manual. The use of privately owned credit cards to purchase gasoline or other fuels is not encouraged.

9. At the termination of a project, the principal investigator will turn over to the research director (or designee) the keys for the vehicle(s) assigned to the project. Should there be immediate reassignment or sale of the vehicle(s), measures should be taken to secure it, e.g., parking in the secure area of the physical plant.

10. The principal investigator to whom a vehicle is assigned should exercise good judgment in ensuring that the vehicle is fully used in keeping with the purpose for which it was budgeted.

11. The research director or his designee will make quarterly reviews of the use of all vehicles in the research program.
Appendix Q
Request for Extension

Submit to the (Interim) Associate Dean for Research no later than February 1
(Not to exceed 4 pages)

Project Title:

Project Number: PI:

I. **Background:** (Brief background on the project and what has been done to date; objectives and accomplishments)

II. **Justification:** (Include specific objectives to be addressed in this extension period)

III. **Activities:** (Briefly describe the activities that will be performed for each remaining objective during the extension period.)

Table 1 Proposed timeline for these activities.

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</tbody>
</table>

IV. Attach budget narrative (indicate anticipated expenditures during the period).
### Appendix R
**Abbreviations/Terms Used in this Manual**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARP</td>
<td>Agricultural Research Program</td>
</tr>
<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
</tr>
<tr>
<td>NIFA</td>
<td>National Institute for Food and Agriculture</td>
</tr>
<tr>
<td>PC</td>
<td>Project Coordinator</td>
</tr>
<tr>
<td>PI</td>
<td>Principal Investigator</td>
</tr>
<tr>
<td>CAES</td>
<td>College of Agriculture and Environmental Sciences</td>
</tr>
<tr>
<td>Evans-Allen</td>
<td>Funds authorized in Section 1445 of Public Law 95-113</td>
</tr>
<tr>
<td>Farm Bill</td>
<td>Federal act/authorization under U.S. Department of Agriculture</td>
</tr>
<tr>
<td>FEPPP</td>
<td>Federal Excess Personal Property Program</td>
</tr>
<tr>
<td>Plan of Work</td>
<td>Documentation outlining plan of research activity</td>
</tr>
<tr>
<td>CRIS</td>
<td>Current Research Information System</td>
</tr>
<tr>
<td>EHRA</td>
<td>Exempt from State Human Resources Act</td>
</tr>
<tr>
<td>SHRA</td>
<td>State Human Resources Act</td>
</tr>
<tr>
<td>AAO</td>
<td>Affirmative Action Officer</td>
</tr>
<tr>
<td>EEO</td>
<td>Equal Employment Office</td>
</tr>
</tbody>
</table>
# Appendix S
## Logic Model

**Project Title:**

**Principal Investigator:**

### SITUATION

<table>
<thead>
<tr>
<th>Description of challenge or opportunity</th>
</tr>
</thead>
</table>

### INPUTS

<table>
<thead>
<tr>
<th>What’s invested</th>
</tr>
</thead>
</table>

### ACTIVITIES

<table>
<thead>
<tr>
<th>What’s done</th>
</tr>
</thead>
</table>

### OUTPUTS

<table>
<thead>
<tr>
<th>New fundamental or applied knowledge, publications, patents, etc.</th>
</tr>
</thead>
</table>

### OUTCOMES

<table>
<thead>
<tr>
<th>Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actions</td>
</tr>
<tr>
<td>Conditions</td>
</tr>
</tbody>
</table>

**Knowledge**

Occurs when there is a change in knowledge or participants actually learn

**Actions**

Occur when there is a change in behavior or participants act upon what has been learned

**Conditions**

Occur when a societal condition is improved due to a participant’s action taken in the previous column

### 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 a particular disease 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.