RUTGERS
New Jersey Agricultural Experiment Station

Office of Research – Capacity Funding
Rutgers, The State University of New Jersey
88 Lipman Drive Rm 221
New Brunswick, NJ 08901-8525
dfrench@njaes.rutgers.edu

Proposal Writing Instructions for Hatch Projects

Funding Source: Research Capacity Fund (Hatch)

Principal Investigator and Performing Department: Also list any SEBS/AES faculty that will be serving as co-directors contributing effort

Title: A brief (140 characters including spaces or fewer) statement of the subject of the research. Do not include phrases such as "research on," "investigation of," etc. Include specific keywords that are as descriptive of the project as possible. Lay language highly preferred.

Proposed Start and End Dates: Regular Hatch projects are typically five years long. Also, our aim is to eventually have projects begin and end with the Federal Fiscal Year of Oct 1 to Sept 30. If your project will begin mid-year, please make sure the end date is Sept 30 but no more than five years out.

Primary Critical Issue: Although more than one may apply to your research, list a brief justification as to which one applies most to your project and why. The approved NJAES Critical Issues are below:

1. Ensuring Positive Outcomes for Our Youth*:* A significant portion of New Jersey's youth, especially in our urban areas, is at substantial risk for negative outcomes (e.g., poor health, substance abuse, pregnancy, school failure, and abuse). Sustained opportunities for young people to gain a sense of belonging, independence, mastery and generosity provide important life skills that ensure positive youth development.
   Science Emphasis Areas: 4-H, youth development, STEM programs/research
2. Build Sustainable and Resilient Communities*:* As the most urbanized and densely populated state in the U.S., New Jersey faces unique challenges. As urbanization, environmental changes, and new technologies are reshaping the way we live, communities must learn to adapt or establish new ways to use their resources to meet current needs while ensuring that adequate resources are available in the future.
   Science Emphasis Areas: Home horticulture, household and community pest management, agribusiness, green infrastructure, community-based solutions and education, community policy formulation
3. Protect and Sustain Our Resources*:* Manmade and natural environmental factors affect water, soil, plant, and air quality, and the ability of various land and aquatic species to thrive and evolve, both ecologically and spatially. New Jersey researchers and extension agents develop an array of integrated programs designed to manage our at-risk natural resources sustainably.
   Science Emphasis Areas: Ecological quality, nutrient use efficiency, animal health, large scale renewable energy sources, use economic analysis to inform environmental policymakers, agroclimate science, environmental systems and policy, wastewater and stormwater management, biofuel energy, bioeconomy
4. Ensure Healthy Outcomes: Food, Nutrition, Health*:* Good health is essential to improving and maintaining individual productivity and quality of life, as well as to the wellbeing of the community at large. Fostering a culture of health and wellness for New Jersey residents of all ages is an important NJAES mission.
   Science Emphasis Areas: Obesity, cancers and chronic health conditions, dietary intervention to improve health, food-borne illness, food safety, community health, nutrition education
5. Maintain Viable Agriculture and Aquaculture: Farmers, fisheries and food producers everywhere deal with threats to their livelihoods posed by unfavorable weather, volatile market prices, high costs of production, and other conditions. New Jersey agriculture also operates in a densely populated, highly regulated, high land-value state.
   Science Emphasis Areas: Breeding, pollinators, post-harvest quality and shelf-life, turfgrass and ornamental, soil and water farm management, aquaculture, weed and pest management, plant disease

RUTGERS

Non-Technical Summary:
This entry in the NIFA Reporting System (NRS) is limited to 8000 characters. You may wish to consider this space limitation when writing this section

In *layman's language*, briefly describe the following:

1. The issue and why it is important – this is your opportunity to sum up the importance of your project in terms that non-scientists can understand
2. Your goal and objectives - all goals should be specific and attainable within the duration of the project and with the available resources
3. The target audiences and how they will benefit
4. How your activities lead to the outcomes described in the goal statement or objectives. An outcome is defined as a significant change in knowledge, action, or condition

Methodology:
This entry in the NIFA Reporting System (NRS) is limited to 8000 characters. You may wish to consider this space limitation when writing this section

Describe the ways in which the project will be conducted, with emphasis on the general scientific methods and any unique aspects of significant departures from usual methods. Procedures should correspond to the objectives and follow the same order. Location of the work and the facilities and equipment needed and available should be indicated. The procedures should reflect careful planning and should provide flexibility for changes if changes become necessary.

Integrated Activities: If your project contains both a research and extension component, please list a description of what makes your project an integrated activity. Here is a non-exhaustive list of examples:

- PI is an extension specialist or county agent or Co-PI on project has an extension appointment
- Includes outreach/outputs to farmers, growers, homeowners, extension educators, public programs, etc.
- Planned publications such as extension publications, fact sheets, public-directed websites

Multistate Activities: If applicable, provide a brief description of what makes this a multistate activity. Example – if you have external cooperation with other experiment stations, institutions or other agencies cooperating formally or informally on the project that are outside New Jersey and/or the US.

Previous work and present outlook: This section should be written as a brief literature review or introduction of the issues/problem addressed by this project. It should summarize previous research (citing important publications), status of current research, and the additional knowledge needed which the proposed project is expected to provide.