

Nova Southeastern University
Health Professions Division
Grant Application

College: _____

Department: _____

Background / TOC

The HPD Research Committee requires a complete research proposal or plan. Complete the application and submit to the Secretary for HPD Research – Ms. Chi Do (room 1522-A, x21784). The Chair of the HPD Research Committee will notify you by letter about the Committee’s decision.

Cover Page	3
Signature Page	4
Abstract	5
Specific Aims	6
Significance	7
Innovation	8
Approach	9
Bibliography and References Cited	10
Vertebrate Animals	11
Select Agents	12
Radiation	13
Budget and Justification	14
Publication Plan	15
Biographical Sketch	16
Resources and Environment	17
Project Timeline	18
Leadership Plan	19

Principal Investigator Cover Page

Project Title (Type or Print):

Project Start Date: _____ Project End Date: _____

Name of Principal Investigator (TYPE OR PRINT)

Title of Principal Investigator (TYPE OR PRINT)

E-Mail Address (TYPE OR PRINT)

College and Department of Principal Investigator (TYPE OR PRINT)

Requested Funding Amount

Signature Page

NAME

DATE

POSITION

Print name

Signature

Date

Faculty Advisor (if applicable)

Print name

Signature

Date

Department Chair

Print name

Signature

Date

Dean's Designee for Research

Print name

Signature

Date

Dean

Print name

Signature

Date

Chairperson Research Committee

PRINCIPAL INVESTIGATOR ASSURANCE

I certify that the statements herein are true, complete, and accurate to the best of my knowledge. I certify that individuals or NSU entities named herein are aware of their planned or potential involvement. I agree to accept responsibility for the scientific conduct of the project.

Print name

Signature

Date

Abstract

The purpose of the abstract is to describe succinctly every major aspect of the proposed project except the budget. The abstract is an important part of your application. It is used in the grant referral process, along with the other parts of the application.

The abstract should be succinct and use no more than one page. Use the following headings to format the abstract:

Brief Background and Goal/Research Question

Specific Aims

Significance

Innovation

Research Plan

Expected Results

Specific Aims

State concisely the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will exert on the research field(s) involved. List succinctly the specific objectives of the research proposed, e.g., to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology.

Specific Aims are limited to one page.

Significance

- Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses.
- Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields.
- Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.

Innovation

- Explain how the application challenges and seeks to shift current research or clinical practice paradigms.
- Describe any novel theoretical concepts, approaches or methodologies, instrumentation or intervention(s) to be developed or used, and any advantage over existing methodologies, instrumentation or intervention(s).
- Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation or interventions.
- Describe how this project is different from similar published studies. (What makes it unique?)

Approach

- Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Include how the data will be collected, analyzed, and interpreted as well as any resource sharing plans as appropriate.
- Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims.
- If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high risk aspects of the proposed work.
- Point out any procedures, situations, or materials that may be hazardous to personnel and precautions to be exercised. A full discussion on the use of Select Agents should appear below.
- Your methodology should be clear enough and detailed enough so that another researcher could replicate your study.

Bibliography and References Cited

Provide a bibliography of any references cited in the Research Plan. Each reference must include names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication. Include only bibliographic citations. Follow scholarly practices in providing citations for source materials relied upon in preparing any section of the application.

The references should be limited to relevant and current literature. While there is not a page limitation, it is important to be concise and to select only those literature references pertinent to the proposed research.

Vertebrate Animals

If animals are involved in the project, identify the sites and describe the activities at those locations. **Attach NSU's IACUC approval form.** Funds will not be released until we receive the form. Failure to follow these guidelines will result in the application being designated as incomplete and will be grounds for the Committee to defer the application from the peer review round. Alternatively, the application's review may be negatively affected.

Select Agents

Select Agents are hazardous biological agents and toxins that have been identified by DHHS or USDA as having the potential to pose a severe threat to public health and safety, to animal and plant health, or to animal and plant products. CDC maintains a list of these agents; see <http://www.cdc.gov/od/sap/docs/salist.pdf>.

If the activities proposed in the application involve only the use of a strain(s) of Select Agents which has been excluded from the list of select agents and toxins as per 42 CFR 73.3, the Select Agent requirements do not apply. Use this section to identify the strain(s) of the Select Agent that will be used and note that it has been excluded from this list. The CDC maintains a list of exclusion at <http://www.cdc.gov/od/sap/sap/exclusion.htm>.

If the strain(s) is/are not currently excluded from the list of Select Agents and Toxins but you have applied or intend to apply to DHHS for an exclusion from the list, use this section to indicate the status of the request or the intent to apply for an exclusion and provide a brief justification for the exclusion.

If any of the activities proposed in the application involve the use of Select Agents at any time during the proposed project period, either at the applicant organization or at any other Project/Performance Site, address the following three points for each site at which Select Agent research will take place. Although no specific page limitation applies to this section, be succinct.

1. Identify the Select Agent(s) to be used in the proposed research.
2. Provide the registration status of all entities* where Select Agent(s) will be used.
 - ◇ If the Project/Performance Site(s) is/are a foreign institution, provide the name(s) of the country or countries where Select Agent research will be performed

*An “entity” is defined in 42 CFR 73.1 as “any government agency (Federal, State, or local), academic institution, corporation, company, partnership, society, association, firm, sole proprietorship, or other legal entity.”
3. Provide a description of all facilities where the Select Agent(s) will be used.
 - ◇ Describe the procedures that will be used to monitor possession, use and transfer of the Select Agent(s)
 - ◇ Describe plans for appropriate biosafety, bio containment, and security of the Select Agent(s),
 - ◇ Describe the bio containment resources available at all performance sites.
 - ◇
4. **Solicit approval of the application from Dr. Harold Laubach (extension 21303).**

Dr. Harold Laubach

Date

Radiation Safety

Any NSU faculty or visiting faculty member needing to utilize radioactive material in research studies must obtain approval from Dr. Michelle Clark (extension 21384).

List each radionuclide (of unsealed radioactive material) to be used, the maximum quantity (in millicuries) that you reasonably expect to possess at any one time, and the chemical/physical form of each.

In general, describe the manipulations and handling of radioactive materials to be used in the laboratory. Include a description of the facilities and equipment that are available at each location where radioactive materials are to be used.

Per NSU Policy radioactive materials cannot be used in animals.

Dr. Michelle Clark

Date

Budget

The purpose of the budget and justification section is to present and justify all expenses required to achieve project aims and objectives. For multi-institutional applications, there must be a separate budget for each subcontractor or consortium member. **Note for research involving student employment you must include fringe benefits.** Contact your College's budget office for current rate.

Publication Plan

State concisely your plan to publish and/or present your study.

Biographical Sketch

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.			
NAME	POSITION TITLE		
eRA COMMONS USER NAME			
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing. Include postdoctoral training and residency training if applicable.</i>)			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MMYY	FIELD OF STUDY

A. Personal Statement

Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g., PD/PI, mentor, participating faculty) in the project that is the subject of the application.

B. Positions and Honors

List in chronological order previous positions, concluding with the present position. List any honors. Include present membership on any Federal Government public advisory committee.

C. Selected Peer-reviewed Publications

We encourage applicants to limit the list of selected peer-reviewed publications or manuscripts in press to no more than 15. Do not include manuscripts submitted or in preparation. The individual may choose to include selected publications based on recency, importance to the field, and/or relevance to the proposed research.

D. Research Support

List both selected ongoing and completed research projects for the past three years (Federal or non-Federally-supported). *Begin with the projects that are most relevant to the research proposed in the application.* Briefly indicate the overall goals of the projects and responsibilities of the key person identified on the Biographical Sketch.

Resources and Environment

Purpose: the purpose of the resources and environment section is to describe the resources, facilities, and support available to the researcher. **If a content item is not applicable, write or type NA.**

1. **Consortium / Contractual Arrangements**
Insert description here or NA if not applicable.
2. **Consultants / Collaborators (Describe the relationship and attach letters of agreement with key consultants and collaborators. Please attach letters of commitment from named consultants and co-investigators.)**
Insert description here or NA if not applicable.
3. **Major Equipment (List the most important equipment items already available for this project, noting the location and pertinent capabilities of each.)**
Insert description here or NA if not applicable.
4. **Laboratory Space**
Insert description here or NA if not applicable.
5. **Clinical Space**
Insert description here or NA if not applicable.
6. **Fixed Clinical Equipment**
Insert description here or NA if not applicable.
7. **Other Relevant Equipment**
Insert description here or NA if not applicable.

Project Timeline

Applicants should construct the project timeline to include critical milestones, measurable outcomes, and mid-term and end of project deliverables to be publicly shared as expeditiously as possible. Make certain that you budget enough time for project approval and funding.

Leadership Plan

Leadership Plans should address the following administrative processes and PI responsibilities.

- ◇ Roles/areas of responsibility of the PIs
- ◇ Fiscal and management coordination
- ◇ Process for making decisions on scientific direction and allocation of resources
- ◇ Data sharing and communication among investigators
- ◇ Publication and intellectual property (if needed) policies