

**UNIVERSITY OF NORTH CAROLINA
AT CHAPEL HILL
SCHOOL OF DENTISTRY**

**2012– 2013 DDS SHORT-TERM RESEARCH
FELLOWSHIPS**

The School of Dentistry, Dental Alumni, and the Dental Foundation of North Carolina sponsors fellowships to promote DDS student research involvement through individual projects under the direction of faculty mentors. Each fellowship consists of a student stipend of \$1800, with additional funding available for travel expenses for research presentations at scientific meetings.

**Proposals should be submitted to
Dr. Jim Beck,
Associate Dean, Research,
2053 Old Dental Building,
by Friday, April 27, 2012.**

For additional information, contact Cindy Blake, 2053 Old Dental Building, 966-1538, or email cindy_blake@dentistry.unc.edu.

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SCHOOL OF DENTISTRY**

**2012 – 2013 DDS SHORT-TERM
RESEARCH FELLOWSHIPS**

Purpose:

The School of Dentistry and the Dental Foundation of North Carolina sponsors fellowships to promote DDS student research involvement through individual projects under the direction of faculty mentors. Support for this program has come from gifts from the Alumni Association, Parents Group, and other research support mechanisms.

Time Commitment:

Research projects should be possible to complete within an approximate eight-week time period, during the summer or the academic year. Discussions by fellowship recipients of research in progress, through meetings to be scheduled as appropriate, will be part of the research experience.

Award:

Each fellowship consists of a student stipend of \$1800, with additional funding available for travel expenses associated with research presentations at scientific meetings. If you are currently an incoming, first or second year student and are awarded a fellowship you will be required to submit your proposal to the AADR as a fellowship application to be eligible for the second \$900 payment from the fellowship.

Submission:

Proposals should be submitted to Dr. Jim Beck, Associate Dean, Research, 2051 Old Dental Building, by April 27, 2012.

For additional information, contact Cindy Blake, 2053 Old Dental Building, 966-1538, or email cindy_blake@dentistry.unc.edu.

University of North Carolina at Chapel Hill
School of Dentistry
NORTH CAROLINA ORAL HEALTH INSTITUTE
2012 -2013 DDS SHORT-TERM RESEARCH FELLOWSHIP PROPOSAL

INSTRUCTIONS FOR APPLICATION SUBMISSION

This package contains:

- cover page
 - instructions for application submission and protocol approvals
 - instructions for writing the research plan
 - project title page
 - abstract page
 - mentor certification page
 - human subject's research online application, as applicable, can be obtained at <http://research.unc.edu/offices/human-research-ethics/online-submission/index.htm>
 - laboratory animal protocol form, as applicable, can be obtained at <https://apps.research.unc.edu/acap/>
- If necessary, make copies of these materials for preliminary drafts and use the original for the final draft. Please follow all instructions carefully. Your **name is to be located in upper right hand corner of every page**. Number all pages consecutively.

Projects that involve human subjects must be accompanied by an IRB study number and the status of the application (submitted, approved, exempt, not yet submitted). Projects involving human subjects cannot begin without review and approval by the Human Subjects Committee. The online application is available at <http://research.unc.edu/offices/human-research-ethics/online-submission/index.htm>. Monthly meeting dates and application submission deadlines are also listed on the web page (<http://research.unc.edu/offices/human-research-ethics/researchers/dates-deadlines/index.htm>). Projects that use vertebrate animals must be accompanied by a **completed Application for Approval of a Laboratory Animal Protocol** form.

Copies of the completed application should be sent to:

1. Dr. Jim Beck (**original**)
Associate Dean for Research
Director, Dental Research Center
2053 Old Dental Building, CB# 7455
Attention: Cindy Blake
Send an electronic copy to: Cindy_blake@dentistry.unc.edu

Further information may be obtained from: Cindy Blake, Room 2053, Old Dental Building, 966-1538, or Cindy_blake@dentistry.unc.edu.

INSTRUCTIONS FOR RESEARCH PLAN

The research plan should be double spaced, typed in 12 font with one-inch margins. **Late proposals will not be accepted.** Organize sections A-D of the Research Plan to answer the following questions:

- (A)What do you intend to do?
- (B)Why is the work important?
- (C)What has already been done?
- (D)How are you going to do the work?

Include Sections E and F if appropriate for the project. Include Section G as the last section of the research plan. Grant reviewers will accord equal importance to sections A-D when they evaluate the project. **THE OVERALL RESEARCH PLAN SHOULD NOT EXCEED EIGHT PAGES** (with sections A-D double-spaced and E-G single spaced). The suggested format is as follows:

- A. **Specific Aims:** State concisely and realistically what the research described in this protocol is intended to accomplish and/or what hypothesis is to be tested.
- B. **Significance:** Briefly sketch the background to the present proposal, critically evaluate existing knowledge, and specifically identify the gaps that the project is intended to fill. State concisely the importance of the research described in this application by relating the specific aims to longer-term objectives.
- C. **Preliminary Studies/Progress Report:** Students may use this section to provide an account of the faculty mentor's, advanced education students, or other preliminary studies pertinent to the research project. If previous funding has been provided or the current application is a request for continued funding, then a progress report is necessary. Continuity of productive projects is highly encouraged. Note: Other support should be indicated on proposal title page.
- D. **Methods:** Discuss in **DETAIL** the experimental design and the procedures to be used to accomplish the specific aims of the project. **Describe your role as student investigator for this project. In particular, indicate what you personally will do to accomplish the project's specific aims.** Describe the protocols to be used and the tentative sequence and timetable for the investigation. Include the means by which the data will be analyzed and interpreted. At a minimum, this should include (1) selection criteria, (2) allocation method, if appropriate, (3) operational definitions of all measures, (4) level of significance of power considerations, if appropriate, and (5) statistical methods to be used. Describe any new methods used, and their advantages over existing methods. Discuss the potential difficulties and limitations of the proposed procedures, and alternative approaches to achieve the aims. Point out any procedures, situations, or materials that may be hazardous to personnel and the precautions to be exercised. An anticipated work schedule should be provided. Show clearly the roles of other research personnel or any other expertise utilized. Statistical analysis can be provided by the dental school's liaison program with the Department of Biostatistics. Contact Dr. Ceib Phillips for details.
- E. **Human Subjects:** If human subjects will be involved, include the IRB study number and status of the application (submitted, approved, not yet submitted).
- F. **Vertebrate Animals:** If vertebrate animals will be used in the project, include a completed copy of the Laboratory Animal Protocol (noting in F that copy is attached). State the species, strains, ages, and numbers of the animals involved. If the animals are in short supply, costly, or to be used in large numbers, provide the rationale for their used and their numbers. Describe the procedures for adequate care of any animals involved. Describe the procedures to avoid unnecessary discomfort, pain, or injury to the animals involved by making reference to surgical anesthesia, post-trauma analgesia, tranquilizing drugs, and comfortable restraining chairs.
- G. **Literature Cited:** Use the citation method recommended by your department/mentor.

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ABSTRACT

ABSTRACT OF RESEARCH PLAN: Provide a summary description of the project's specific aims, methodology and long term objectives. Give an overview of the significance of this project. The abstract should be self-contained so that it can serve as a succinct and accurate description of the project. Please use no more than the space provided below.

TITLE: _____

STUDENT INVESTIGATOR:

University of North Carolina at Chapel Hill
School of Dentistry
NORTH CAROLINA ORAL HEALTH INSTITUTE
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Title of Project (limit 56 characters): _____

Name of Student Investigator: _____

Mentor's Position Title: _____ Department (mentor's): _____

Student Level beginning Fall 2012: DDS 1 DDS 3
(circle one) DDS 2 DDS 4

Degrees: _____ SS# _____ PID# _____

DDS Box # _____ Work Phone _____

Home Address: _____

| PROJECT DATA | Approval | Dates |
|----------------------|----------|-------------|
| Human Subjects: | Y N | ___/___/___ |
| Vertebrate Animals: | Y N | ___/___/___ |
| Hazardous Materials: | Y N | ___/___/___ |

Dates of Proposed Project: ___/___/___ -- ___/___/___

OTHER SUPPORT AND FUNDING DATA:

Expected Total Cost: _____ *This support mechanism provides a student stipend and partial travel offset to present at a scientific meeting. What other source(s) will be used to cover the other expenses of this study? If other support or awards have been obtained, please show date of award and relationship to research proposed in this application. Support should be noted for preliminary studies for the proposed research, and continuity of productive research is encouraged. However, other awards to the student for this project with complete scientific overlap in proposals may disqualify this application from receiving funding through this fellowship mechanism. We wish to recognize meritorious research, but School fellowship resources are limited and cannot support projects for which you have received funding from other sources. Please therefore explain carefully any potential project overlaps (if necessary), use attached sheet).*

This proposal was primarily the effort of the student.

Student Investigator Signature: _____

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Name of Student Investigator:_____

Project Title:_____

MENTOR CERTIFICATION

1. I certify that I have read this proposal and reviewed it with the student investigator and find it a suitable and valuable research project.
2. I understand that this is considered a short-term project and, as faculty mentor, certify that I will assist the student in arranging for significant research involvement to meet the specific aims of this project. I will expect progress reports as appropriate and will provide timely evaluation.
3. In addition, I understand that this support mechanism provides a student stipend, but does not include funding designated for supplies and equipment. As faculty mentor for this project, I will assure that the student has access to necessary resources.
4. As faculty mentor for this research, I understand that this application should note support for preliminary studies for the proposed research, and continuity of productive research is encouraged. I am also aware that other awards to the student for this project with complete scientific overlap in proposals may disqualify this application from receiving additional funding through this fellowship mechanism, since School fellowship resources are limited and cannot support projects for which students have reviewed direct funding from other sources.
5. If the student is to present proposal research at a professional meeting, limited funding through this fellowship opportunity may be available as partial offset for travel expenses. As faculty mentor, I understand that other or matching resources may be required for such presentations

Name of Faculty Mentor (print or type)

Date

Signature of Faculty Mentor

Title, Department

Mentor Address/Telephone