

**NEW INVESTIGATOR PROGRAM
2011 REQUEST FOR PROPOSALS**

APPLICATION GUIDELINES



**Wisconsin
Partnership Program**

UNIVERSITY OF WISCONSIN
SCHOOL OF MEDICINE AND PUBLIC HEALTH

I. INTRODUCTION AND GENERAL INFORMATION

The Wisconsin Partnership Program Education and Research Committee is pleased to announce the 2011 funding cycle of the New Investigator Program. This program is designed to help achieve the vision of the Wisconsin Partnership Program: “making Wisconsin a healthier state for all”. Please see Section X for the Mission, Vision, and Guiding Principles of the Wisconsin Partnership Program.

The goal of the New Investigator Program is to support innovative research and/or education approaches that address Wisconsin’s public health issues. Evaluation of each proposal will be based on scientific merit and the potential impact on health and/or health care.

The WPP Education and Research Committee is seeking creative research and education proposals that span the spectrum of basic science, clinical science, or population health science. Proposals should advance biomedical sciences, and/or promote patient care and the health of populations through prevention; diagnosis; treatment and cure of disease; and the reduction of health disparities. Each proposal must describe the potential to improve the health of the people of Wisconsin and must also clearly explain the steps necessary to translate discovery to application in the clinical setting and/or in communities.

II. ELIGIBILITY REQUIREMENTS

The Principal Investigator (PI) must be a salaried UW School of Medicine and Public Health (SMPH) Assistant Professor. The PI’s appointment start-date, as of January 1, 2012, must be on or after:

Tenure Track	January 1, 2008 (i.e., within four years of start-date), plus tenure track extension, if applicable
Clinical Health Sciences (CHS)	January 1, 2006 (i.e., within six years of start-date)
Clinician-Teacher (CT)	January 1, 2006 (i.e., within six years of start-date)

If you are unsure of your eligibility status, please contact the Wisconsin Partnership Program Office (See Section V).

III. SCOPE OF FUNDING

Awards up to \$100,000 may be requested to be expended within two years. Typically three projects are funded each cycle.

IV. SUBMISSION GUIDELINES

A. Preliminary Grant Application

A preliminary grant application is required. Applicants are limited to submission of no more than one preliminary application as Principal Investigator (PI) or Co-PI. The preliminary grant application forms described in section VI are web-based and are accessible at <http://www2.med.wisc.edu/mercprenip/>. Instructions are provided upon entry into the web site on obtaining a unique username and password to access the application forms.

Applicants are required to attest to the accuracy of the information provided and to submit the forms electronically via the web-based preliminary application by **5:00PM on Thursday, June 9, 2011**. The web-based preliminary application will be inaccessible after that time. The Principal Investigator will receive an email confirmation upon submission of the preliminary application.

Preliminary applications will be considered for further development as full applications. Applicants will be informed by **July 12, 2011** regarding whether they are being invited to submit full applications.

B. Full Grant Application

A limited number of preliminary applicants will be invited to submit full applications. The full grant application forms described in section VII are web-based. The link to the full application web site will be provided to the Principal Investigator in the letter of invitation from the WPP Education and Research Committee.

Applicants are required to attest to the accuracy of the information provided and to submit the forms electronically via the web-based full application by **5:00PM on Friday, September 16, 2011**. The web-based full application will be inaccessible after that time. The Principal Investigator will receive an email confirmation upon submission of the full application.

Applicants invited to submit full applications will be informed by **November 15, 2011** regarding whether they are being invited to make an oral presentation to the WPP Education and Research Committee.

C. Submission and Review Dates

Request for Proposals released	May 12, 2011
Applicant information session webcast	Link available May 20, 2011
Preliminary applications due	June 9, 2011
Review of preliminary applications	June – July 2011
Notify applicants of status/Invite full applications	July 12, 2011
Full applications due	September 16, 2011
Review of full applications	September – November 2011
Notify applicants of status/Invite finalists for interviews	November 15, 2011
Applicant interviews/Decision on awards	December 12, 2011

D. Limit on Resubmission of the Same Proposal

Applicants are limited to two submissions, an original and one resubmission, of the same proposal. Applicants submitting a revision must respond to the reviewer comments provided by the Wisconsin Partnership Program at the conclusion of the most recent funding cycle, paying particular attention to how the current proposal differs from the original submission.

Applicants who have submitted two versions of an application and have not been successful may submit a new application. It must be substantially different in content and scope with more significant differences than are normally encountered in a resubmitted application.

V. TRAINING AND TECHNICAL ASSISTANCE

The Wisconsin Partnership Program will post an information session webcast for potential applicants and others working with faculty on developing an application on the Wisconsin Partnership Program web site.

In addition, program staff are available to answer questions about the application submission and review process, applicant eligibility, budget categories, and program priorities.

Wisconsin Partnership Program 750 Highland Avenue, 4230 HSLC Madison, WI 53705-2221 (608) 265-8215 wpp@hslc.wisc.edu http://www.wphf.med.wisc.edu	Eileen Smith , Assistant Dean and Director (608) 262-2698 emsmith2@wisc.edu Steve Smith , Accountant (608) 265-8109 smsmith9@wisc.edu
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VI. PRELIMINARY GRANT APPLICATION GUIDELINES

A preliminary grant application is **required** and will be considered for further development as a full application. **Applicants are limited to submission of no more than one preliminary application as Principal Investigator (PI) or Co-PI.**

The preliminary application forms are web-based and are accessible at <http://www2.med.wisc.edu/mercprenip/>. All items in the Table of Contents are required unless otherwise indicated in the application guidelines. Each form includes detailed instructions. In addition to providing general information on the project, the preliminary application includes the following components:

A. Letter of Interest

Provide an overview of the project stating the broad, long-term objectives and specific aims, making reference to the potential impact on health and/or health care. The overview must also indicate how the project addresses the Mission, Vision and Guiding Principles of the Wisconsin Partnership Program (See Section X). In addition, the overview should contain a brief paragraph description of how successful completion of this project will advance the career development of the applicant.

The overview must be uploaded in electronic format as PDF, and may not exceed two (2) single-spaced pages, using a minimum 11-point font with one-inch margins. Footnotes and references **are** included in the page limits for the Letter of Interest.

B. NIH Biographical Sketch

Provide a current four-page NIH biographical sketch for the Principal Investigator. Provide four-page biographical sketches or resumes for the Co-PI and/or Collaborator(s), if applicable. The biographical sketch must include a personal statement relevant to the proposal, and the following details related to other support:

- Active/Pending
- Project number (Principal Investigator)
- Source
- Title of project (or Subproject)
- Major goals of the project
- Dates of approved/proposed project
- Total amount of award
- Percent effort

The NIH biographical sketch(es)/resume(s) must be uploaded in electronic format as PDF.

VII. FULL GRANT APPLICATION GUIDELINES

Applicants must be invited to submit full applications. The full grant application forms are web-based. The link to the full application web site will be provided to the Principal Investigator in the letter of invitation from the WPP Education and Research Committee. Each form includes detailed instructions. In addition to providing general information on the project, the full application includes the following components:

A. Proposal Abstract and Relevance

The first and major component of this section is the Proposal Abstract. It is meant to serve as a succinct and accurate description of the proposed work when separated from the application. State the application's broad, long-term objectives and specific aims, making reference to the potential impact on health and/or health care of the project (i.e., alignment with the Mission, Vision, and Guiding Principles of the Wisconsin Partnership Program, see Section X). Describe concisely the design and methods for achieving the stated goals. This section should be informative to other persons working in the same or related fields and understandable to a

scientifically or technically literate reader. Avoid describing past accomplishments and the use of the first person.

The second component of this section is Relevance. Describe in a brief paragraph how the outcomes of this project will lead to improvements in health and/or health care. In this section, you must provide a brief synopsis in succinct and plain language without scientific and medical terminology that can be **understood by a general, lay audience**.

The proposal abstract and relevance must be uploaded in electronic format as PDF and may not exceed one (1) single-spaced page, using a minimum 11-point font with one-inch margins.

B. Proposal Narrative

Provide a description of the project including the specific aims, significance, approaches, and expected outcomes. The proposal narrative must be uploaded in electronic format as PDF and may **not** exceed five (5) single-spaced pages using a minimum 11-point font with one-inch margins. The following items are **not** included in the page limits: footnotes, references, and up to three tables and/or figures.

C. Proposal Review Criteria

Include a statement addressing the primary and/or secondary review criteria listed below. This statement must be uploaded in electronic format as PDF and may not exceed two (2) single-spaced pages using a minimum 11-point font and one-inch margins.

- 1. Primary review criteria:** All applicants are required to address the primary review criteria.
 - The project is innovative and has outstanding merit.
 - The project advances the Mission, Vision, and Guiding Principles of the Wisconsin Partnership Program (See Section X).
 - The project appears feasible with a potential for acquisition or application of useful data.
 - The project has the potential to advance the career development of the applicant.
 - The project describes the process by which successful execution of this research or education intervention could be translated into improved health of the people of Wisconsin.
- 2. Secondary review criteria:** If applicable, applicants may also address the secondary review criteria.
 - The project has a leveraging effect and is likely to lead to extramural grant support.
 - The project enhances interdisciplinary research or education and fosters collaborations among basic, clinical and population health scientists.
 - The project engages communities.
 - Evidence of departmental support and resources for the project, such as compensated protected time, facilities or other appropriate resources, is indicated in the nomination letter from the SMPH Department Chair (See Section VII.D).

D. School of Medicine and Public Health Department Chair Nomination Letter

The application must include a nomination letter from the SMPH department chair. The nomination letter must provide evidence of compensated protected time for this project. The letter must also address departmental support and resources, such as facilities or other appropriate resources, for the successful applicant. Include an overview of start-up funds provided by the SMPH department, the SMPH, the UW-Madison Graduate School, or other sources. There is no limit on the number of nominations from each department.

The nomination letter must be uploaded in electronic format as PDF. There is no page limit for the nomination letter.

E. NIH Biographical Sketch

Provide a current four-page NIH biographical sketch for the Principal Investigator. Provide four-page biographical sketches or resumes for the Co-PI and/or Collaborator(s), if applicable. The biographical sketch must include a personal statement relevant to the proposal, and the following details related to other support:

- Active/Pending
- Project number (Principal Investigator)
- Source
- Title of project (or Subproject)
- Major goals of the project
- Dates of approved/proposed project
- Total amount of award
- Percent effort

The NIH biographical sketch(es)/resume(s) must be uploaded in electronic format as PDF.

F. Letters of Commitment

Applicants collaborating with an organization(s) external to the University of Wisconsin System must include a letter(s) of commitment providing evidence of the collaboration with specific details on how the organization(s) will be involved or support the project.

G. Project Budget and Funding Guidelines

1. General Information

- a. The maximum request is up to \$100,000 to be expended within two years.
- b. The project budget should clearly indicate how the grant funds will be spent. Expenditures must:
 - be fully justified, reasonable and clearly related to the project's goal(s);
 - reflect the activities/tasks listed in the proposal; and
 - explain the sources and amounts of any cost sharing funds, either in-kind or cash match.
- c. Requests should be made by expense type (salary, fringe benefits, travel, supplies, etc.). Provide sufficient detail for individuals unfamiliar with the project so they can accurately review the proposal.
- d. Budget Narrative: A budget justification narrative is required for purposes of describing in detail the major budget line items: salary, fringe, travel, equipment, supplies, consultants/contracts, and other costs. The narrative should provide the specifics of why an expense is necessary to achieve the goal(s) and objective(s) of the project.
- e. In-Kind and Cash Match Cost Sharing: Provide details of all other sources of cost sharing, which should include internal or external in-kind or cash match.

2. Use of Funds

- a. Complete guidelines for allowable/unallowable expenses are available for review on the Wisconsin Partnership Program web site (see Section V).

- b. Funds must be used for project-related costs:
 - Principal Investigator (PI) salary support. The compensated appointment of the PI (and Co-PI, if applicable) cannot exceed 30% FTE annually, and must be fully justified in the budget narrative.
 - Support staff expenses such as salaries and benefits or graduate student tuition
 - Supplies
 - Services
 - Human subject reimbursement
 - Equipment (defined as items costing more than \$5,000 and more than two years useful life). Maximum allowed is \$50,000.
 - Travel
 - Consultant and contractual services

- c. Funds may **not** be used for:
 - Entertainment
 - Indirect overhead costs
 - Supplanting (See Section VII.H)

H. Non-Supplanting

1. Background

Supplanting means “to replace, to take the place of, or to supersede.” The Wisconsin Partnership Program prohibits any funds from being awarded that will supplant funds or resources otherwise available to applicants from other sources for the proposed project.

All applicants will be required to answer the Non-Supplanting Questionnaire as part of the application process. As an ongoing check against supplanting, grant recipients will be asked to recertify that other funds for the proposed project have not become available or been declined. This recertification will take place on an annual basis.

No grant can be awarded if a determination of supplanting is made.

2. Example of Supplanting

During the recruitment of a new faculty member, a request for start-up funds is made and approved. The request describes a particular focus of research and outlines needs for supplies and a research assistant. The faculty member subsequently applies for a New Investigator grant for the same research. Upon receiving the New Investigator grant, the faculty member shifts the funding for supplies and the research assistant from the start-up funds to the Wisconsin Partnership Program grant thereby freeing up the start-up funds. In this case, the Wisconsin Partnership Program funds are being used to replace existing funding that was given for the same research and the start-up funds remain available for other uses. This is considered supplanting. Therefore, the New Investigator grant would not be awarded.

3. Example of Non-Supplanting

A faculty member has begun promising research on a protein that is linked to cancer. The research is funded by a charitable foundation. The faculty member subsequently applies for a New Investigator grant to examine the protein in relation to Alzheimer’s disease. Upon receiving the Wisconsin Partnership Program funding, one of the staff from the original study is reassigned to the new research and the staff person’s funding is shifted to the Wisconsin Partnership Program grant. Although expenses are shifting from one project to another, it is not considered to be supplanting since the cancer funds are being used for cancer research and the Wisconsin Partnership Program funds are being used for Alzheimer’s research.

I. Compliance See Section IX for an explanation.

J. Trade Secret and Proprietary Information

The WPP Education and Research Committee is required to operate in accordance with both the Wisconsin open meetings and public records laws. Under the public records law, applications funded by the Education and Research Committee are considered public records and may be subject to public release. Applicants must request confidentiality of any trade secrets and/or proprietary information in their applications.

K. Application Resubmission

Applicants are limited to two submissions, an original and one resubmission, of the same proposal (i.e., full application). Applicants submitting a revision must respond to the reviewer comments provided by the Wisconsin Partnership Program at the conclusion of the most recent funding cycle, paying particular attention to how the current proposal differs from the original submission.

Applicants who have submitted two versions of an application and have not been successful may submit a new application. It must be substantially different in content and scope with more significant differences than are normally encountered in a resubmitted application.

L. Optional Materials

Reprints or other materials may be submitted for use by the reviewers at their discretion. Optional materials should not be used to circumvent the narrative page limits. These materials must be uploaded in electronic format as PDF.

VIII. REVIEW PROCESS

A. Preliminary Grant Application Review Process

1. Technical Review

Program staff will review each preliminary application to ensure that minimum requirements, including eligibility, have been met. Any preliminary application which does not comply with the submission requirements will not be reviewed and the applicant will be notified.

Program staff will seek the advice of the Chair of the WPP Education and Research Committee if questions arise from the technical review.

2. Content Review

The NIP Review Subcommittee, which is advisory to the full committee and which is made up of members of the WPP Education and Research Committee, will review the content of each preliminary application to determine if it warrants further development as a full application. Evaluation of preliminary applications will be based on scientific or educational merit, program objectives, and alignment with the Wisconsin Partnership Program Mission, Vision and Guiding Principles (See Section X). The Subcommittee Chair will report the results of the content review to the Education and Research Committee at a subsequent meeting.

Applicants will be informed by **July 12, 2011** regarding whether they are being invited to prepare full applications.

B. Full Grant Application Review Process

1. Technical Review

Program staff will review each full application to ensure that minimum application requirements, including a non-supplanting review, have been met. Any application which does not comply with the submission requirements will not be reviewed and the applicant will be notified.

Program staff will seek the advice of the Chair of the WPP Education and Research Committee if questions arise from the technical review.

2. Faculty Expert Review

The WPP Education and Research Committee will assign each full application to two faculty reviewers who have expertise in biomedical research, health services research, or community-based population health research, or education, as required by the content and objectives of the proposals. The faculty experts will review and score assigned proposals based on scientific or educational merit, proposal design, evaluation plan, qualifications of the Principal Investigator, and potential impact on health and/or health care. The reviewers will meet to discuss the proposals and will provide a ranked list to the Education and Research Committee along with a written critique of each ranked proposal.

Applicants will be informed by **November 15, 2011** regarding whether they are being invited to make an oral presentation to the Education and Research Committee.

3. Committee Review

The top ranked candidates will make oral presentations to WPP Education and Research Committee on **December 12, 2011**. No exceptions to the announced date will be made.

The Education and Research Committee will make the final determination of awards based on rank, program objectives, and alignment with the Wisconsin Partnership Program Mission, Vision and Guiding Principles (See Section X).

The decisions of the Education and Research Committee are final and cannot be appealed.

IX. GRANT AWARD PROCESS

A. Memorandum of Understanding

The SMPH will negotiate the terms of each grant and will enter into a Memorandum of Understanding with successful applicants prior to the distribution of any funds. Successful applicants will participate in project and fiscal monitoring activities as defined and delineated in the contract terms and conditions.

The PI will have ultimate authority over and responsibility for the project.

The WPP Education and Research Committee reserves the right to establish award amounts and to authorize budget items, program goals, and other terms of the proposal prior to entering into an agreement with award recipients. Rebudgeting between major budget categories (personnel, supplies, travel, equipment, contracts) in excess of 10% of the total project budget must be approved by the Director of the Wisconsin Partnership Program.

By applying to the New Investigator Program, applicants agree and consent, without reservation, substitution, or limitation to each of the following:

- Application submission requirements and rules;
- The proposal review methods, process, criteria, and scoring;

- The Education and Research Committee's sole, unrestricted right to reject any or all applications submitted in response to this Request for Proposals.

B. Successful applicants will be required to provide the Wisconsin Partnership Program documentation of approval by the appropriate following committees:

1. Institutional Review Board

All approved projects using human subjects in research for any purpose other than as individuals enrolled in a class or program must be reviewed by the Institutional Review Board (IRB). Documentation of an IRB review will be required before funds are disbursed.

2. Animal Care and Use Committee

All approved projects using animals in research for any purpose must be reviewed by the Animal Care and Use Committee (ACUC). Documentation of an ACUC review will be required before funds are disbursed.

3. University Radiation Safety Committee

If the use of radioactive materials or equipment that produces radiation is essential for accomplishing the proposed activities in this project, authorization to use radionuclides must be secured from the University Radiation Safety Committee prior to the initiation of the project. Documentation of URSC approval must be provided before funds are disbursed.

4. Institutional Biosafety Committee

If the proposed activities involve the use of biological materials, the activities must be reviewed by the Institutional Biosafety Committee prior to initiation of the project. Documentation of Office of Biological Safety approval must be provided before funds are disbursed.

C. Successful applicants will also be required to provide the Wisconsin Partnership Program with the following:

1. Progress, Financial and Non-Supplanting Reports

The Wisconsin Partnership Program requires written progress reports and financial status reports (FSR), on forms provided by the Wisconsin Partnership Program. Progress reports, including Financial Status Report and Non-Supplanting Questionnaire, are due no later than thirty (30) days after the end of each twelve (12) month period. Final reports, including Financial Status Report and Non-Supplanting Questionnaire, are due no later than ninety (90) days after the end of the project.

2. Health Insurance Portability and Accountability Act (HIPAA)

The HIPAA privacy rules are a set of federal regulations protecting the privacy of an individual's health information used in clinical practice, research and operations of health care facilities. The privacy rule applies to the use or disclosure of protected health information for research purposes and requires a number of actions and documentation.

3. Intellectual Property Agreement

An Intellectual Property Agreement may be required for inventions, discoveries or copyrightable material developed as a result of a project. The PI's attestation on the New Investigator Program preliminary and full grant applications indicates knowledge of and agreement with UW-Madison Patent Policies as outlined in the University's "Patent Policies and Procedures" manual.

D. Acknowledgement of Funding

Fund recipients must acknowledge the Wisconsin Partnership Program in any press releases, articles or other means of publicizing this project or its results with the following language: “Funding for this project was provided by the Wisconsin Partnership Program of the UW School of Medicine and Public Health.”

E. Additional Requirements

The WPP Education and Research Committee reserves the right to negotiate additional requirements concerning cost sharing funds or conditions for support.

X. WISCONSIN PARTNERSHIP PROGRAM MISSION, VISION AND GUIDING PRINCIPLES

The Wisconsin Partnership Program is dedicated to improving the health and well-being of the public through investments in research, education, prevention practices and interventions, and policy development. The goal is to show progress in improving the health of individuals, families and communities in Wisconsin.

To provide guidance and accountability for Wisconsin Partnership Program investments, a mission, vision and guiding principles defining goals and funding priorities were developed. These statements and guiding principles are the framework for forming partnerships and collaborations to make Wisconsin a healthier state for all.

A. Mission: The Wisconsin Partnership Program will serve the public health needs of Wisconsin and reduce health disparities through initiatives in research, education and community partnerships.

B. Vision: Making Wisconsin a healthier state for all.

C. Guiding Principles:

- **Prevention:** Promote health and prevent disease, injury and disability
- **Partnership:** Seek out, encourage and support community-University partnerships
- **Enhancement:** Advance and replicate innovative and transformational population health programs
- **Responsiveness:** Accelerate existing and stimulate new initiatives with the greatest potential to improve population health
- **Effectiveness:** Support the translation and application of evidence-based practices and policies
- **Sustainability:** Enhance and leverage other resources to help programs evolve and become self-sustaining

Health improvement in Wisconsin is defined in two ways: improving health indicators (i.e., decreasing morbidity and mortality) and health related quality of life, and reducing health disparities. Progress will be determined through effective health policies, interventions, and practices over the short-term, and through improvements in health care, health behaviors, socioeconomic factors, and the physical environment over the long-term.

To accomplish the mission and vision, the Wisconsin Partnership Program will invest in a balanced portfolio of community partnerships, education and research initiatives, and community engagement strategies, and support the transformation to an integrated school of medicine and public health.

The greatest strength of the Wisconsin Partnership Program is the connection of the UW School of Medicine and Public Health with people, partners and resources statewide. Through collaboration and partnerships, the people of Wisconsin will benefit from the shared knowledge, experience and resources of the School and communities.

XI. 2009-2014 FIVE-YEAR PLAN FRAMEWORK

A. Education

1. **Goal:** Promote and implement creative education strategies to prepare Wisconsin's future health professionals, and public health and scientific workforce to meet the health needs of Wisconsin.
2. **Strategy:** Initiatives will be based on effective methods of teaching and learning – supported through faculty development – and will incorporate program evaluation.

Emphasis will be on forging new directions in medical and public health education to better meet health care challenges, including the needs of underserved populations. Educational connections between community service and the Oversight and Advisory Committee (OAC) will be established to benefit future health professionals and to support collaboration between the UW School of Medicine and Public Health (SMPH) and the community.

3. **Initiatives:** New directions in medical, public health and graduate education will result from the development of the following initiatives:
 - Assess the needs of the public health workforce for a distance education public health certificate program and/or a distance Master of Public Health degree.
 - Redesign the third and fourth medical student clinical years with:
 - a better balance of acute care and chronic care management with the prevention of disease through health promotion and effecting change in individual health behaviors;
 - hands-on experiences for students working in communities on public health challenges, such as drug and alcohol abuse, the needs of the homeless, lead paint abatement and communicable diseases.
 - Develop scholarly concentrations for medical students in areas such as leadership, research and public health, including the availability of certificates.
 - Establish an overarching professional training program for graduate students and post-doctoral trainees focusing on ethics, clinical research, public health and professional development, including secondary degrees or certificates in areas such as public health or statistics.
 - Create opportunities for multidisciplinary student teams to work in communities through collaboration with OAC.

B. Research

1. **Goal:** Support research programs encompassing biomedical sciences, patient care and the health of populations through prevention, diagnosis, treatment and cure of disease, with an emphasis on reducing health disparities.
2. **Strategy:** Promotion of a balanced portfolio of investments along a continuum of basic, clinical, translational and applied public health research to benefit the health of individuals, families and communities, and the promotion of collaborations between the OAC and the WPP Education and Research Committee around targeted initiatives.
3. **Initiatives:** The Education and Research Committee will continue to support the following two programs, enabling faculty to compete for funding for new research initiatives. This will be accomplished through an annual call for proposals aligned with the WPP's goals and objectives.
 - The Collaborative Health Sciences Program (CHSP), implemented in the initial five-year plan, is a competitive process for associate and full professors and distinguished and senior scientists. The CHSP will continue to emphasize new and innovative collaborations both within and outside the SMPH with the greatest potential to build healthier communities and to leverage other resources.
 - The New Investigator Program (NIP), implemented in the initial five-year plan, is a competitive process for assistant professors beginning their careers who have research interests in addressing Wisconsin's public health issues. The NIP supports preliminary work on important health issues, which, if successful, is likely to result in leveraging other funds.

The Education and Research Committee also will develop a targeted competitive program parallel to the Collaborative Health Sciences Program. This program will bridge basic to clinical to translational to applied public health research and emphasize the following:

- Areas identified by the Dean of the SMPH to promote the transformation to an integrated school of medicine and public health. These include obesity, neurosciences, aging, alcohol abuse and health policy development.
- Other areas, driven by available health data, including processes or systems, such as access to care, reducing health disparities and quality of care improvements.
- Specific diseases, such as cardiovascular conditions and cancer, that are significant health issues in Wisconsin.

C. Community Engagement

1. **Goal:** Foster and strengthen partnerships between the SMPH and Wisconsin communities to enhance the impact of the SMPH through community-based research, education and service - thereby advancing the transformation to an integrated school of medicine and public health.
2. **Strategy:** Strengthen the capacity of the SMPH in public and community health, recognizing the vital role community engagement plays in supporting the transformation to a school of medicine and public health and in ensuring a balanced portfolio of investments.
3. **Initiatives:** The following initiatives will support the objective of the SMPH to become a model of successful community engagement resulting in substantial and measurable improvements in the health of the people of Wisconsin:
 - Expand community-based research capacity through faculty expansion and development.
 - Partner with existing UW centers and link with external organizations to improve the health of communities.
 - Develop support services, such as a shared service to support faculty, staff and students interested in conducting community-based research, and an evaluation research shared service where technical assistance, program planning, evaluation services and library resources are available to communities.
 - Support and expand community education that engages students in assessing and addressing community health needs.

XII. GUIDE FOR THE CLASSIFICATION OF RESEARCH AND EDUCATION

The WPP Education and Research Committee classifies proposals along a spectrum from basic, clinical, and population research to education. Some proposals may fall entirely into one category, whereas others may include aspects of one or more types of research and education:

- A. Basic research:** Research done to understand mechanisms underlying biological function and phenomena, including inherited and acquired diseases.

Goals of basic research include improved understanding of fundamental processes in normal or modified biological systems, identifying molecular and genetic determinants that are characteristic of these systems, and identifying possible molecular targets for perturbing these systems (with a view to therapeutic interventions). Research may be done in cell-free systems, on cells, isolated tissues or organs, or entire organisms, or in populations. Basic studies of health and disease are most often done in model systems but are also done using human tissue or human subjects.

- B. Type 1 translational research:** Research wherein a basic laboratory discovery becomes applicable to the diagnosis, treatment or prevention of a specific disease.

This type of research is brought forth by either a physician-scientist who works at the interface between the research laboratory and patient care or by a team of basic and clinical science investigators. Translational medicine may also refer to the wider spectrum of patient-oriented research that embraces

innovations in technology and biomedical devices as well as the study of new therapies in clinical trials. Translational research does not always involve patients or medicine, e.g., development of technology that develops or improves products (e.g., mass spectrometers, bone scanning densitometers, etc.) that are used in research and clinical diagnosis, identification of microbes and studies of their toxins to develop antidotes/treatments to exposure/infection, etc are also applicable.

- C. Clinical research:** Research to examine the efficacy of diagnostic, therapeutic, or preventive interventions as well as investigation into mechanisms of disease, and which may include clinical trials as well as case control, cohort and other types of epidemiologic studies.

Investigators typically interact directly with well characterized patients or patient populations. This area of research includes: mechanisms of human disease, therapeutic interventions, clinical trials, clinical epidemiology, and development of new technologies.

- D. Type 2 translational research:** Applied research on improving human health through enhancing the adoption in clinical practice of new findings and evidence-based practices emanating from clinical research.

This research shows that an intervention is worth implementing in practice ("policy research"), confirms that it is applicable in typical practice settings ("effectiveness research"), and develops strategies to implement it on a large scale ("dissemination-implementation research").

- E. Applied public health research:** Related to improving the health of populations.

Research can be observational or interventional. Typical targets may include the general population or its subgroups, including schools, worksites, governmental agencies, mass media, voluntary agencies, churches, and other community-based groups.

- F. Education:** Proposals to develop or enhance education methods, increase capacity, and/or improve the capability of the current or future public health and health care workforce to improve health in Wisconsin.

Educational proposals can include those that improve current educational programs or develop and implement new programs addressing unmet educational and workforce needs. The target of these proposals can be along the continuum from health professionals in training to existing public health and health care workers. Evaluation of educational proposals should address not only dissemination of new knowledge but also changes in behaviors and practices leading to improved health outcomes.