

# SPHHP Research Activities Newsletter

University at Buffalo

November/December 2015

## In the News

### Congratulations to the Following Awardees:



**David Hostler**, Professor and Chair of Exercise and Nutrition Sciences, is PI on a new award from the U.S. Navy Office of Naval Research for the project entitled *University at Buffalo Hyperbaric Chamber Refurbishment Equipment Grant*. The Emergency Responder and Warfighter Performance Lab's (ERWPL) hyperbaric chamber will be upgraded and recertified for human occupancy to reestablish its data collection capabilities.



**James Lenker**, Associate Professor of Rehabilitation Science, is Co-Investigator on a new award from Independent Living and Rehabilitation Research/DHHS Administration with PI Ed Steinfeld (Architecture) for the project entitled *RERC on Improving Access and Inclusion in the Built Environments*. The project will use a Knowledge-To-Action Model to influence accessibility and universal design in four broad domains of the built environment: 1) housing, 2) commercial buildings, 3) community infrastructure, and 4) transportation.



**Arthur Michalek**, Research Professor of Epidemiology and Environmental Health (EEH), is PI on a new award from the P<sup>2</sup> Collaborative of WNY/NYS Dept. of Health for the project entitled *Population Health Improvement Program*. Dr. Michalek will represent the Division of Health Services Policy & Practices and serve on the Advisory Team to help design, measure, and demonstrate population health improvement in support of the goals and objectives identified in the Population Health Improvement Program. **Jerome Yates**, Clinical Professor of EEH, is co-investigator.



**Todd Rideout**, Assistant Professor of Exercise and Nutrition Sciences, is PI on a new award from The Canola Council of Canada/Government of Manitoba for the project entitled *Identification of Differentially Expressed Genes Underlying Improvements in Body-Composition and Cardiovascular Health in Response to Canola Oil Consumption*. The primary objective of this study is to utilize a nutrigenomic approach to examine the molecular mechanisms underlying changes in fat metabolism in response to canola oil consumption.



**Jean Wactawski-Wende**, Dean of SPHHP and Professor of Epidemiology and Environmental Health (EEH), is PI on a 5-year extension from the National Heart, Lung and Blood Institute/ NIH for the project entitled *Women's Health Initiative (WHI) – Regional Center*. As the Northeast Regional Center for the WHI, the study will continue to follow the health outcomes of the postmenopausal women who have been participants since the study launched in 1991. With participants now aged between 67 and 100 years, the study also will examine the quality of life, as well as frailty and predictors of healthy aging. New studies will be added, including two clinical trials: one on physical activity and health and another on the effect of cocoa extract and multivitamins on health. Co-Investigators from EEH are **Michael LaMonte**, Research Associate Professor, **Amy Millen**, Associate Professor, and **Heather Ochs-Balcom**, Assistant Professor.

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# Grant Clinic

## Upcoming Changes to 2016 NIH and AHRQ Grant Applications and Post-Award Forms and Instructions

NIH and AHRQ have announced changes to the application form and instructions ([NOT-OD-16-004](#)). These changes will roll out in two phases.

### Effective for applications submitted on or after January 25, 2016:

1. There will be new application requirements and review language regarding enhanced rigor and reproducibility
2. Less information will be required for the vertebrate animal section of the application
3. Inclusion of Children will lower the age designation for children to include those under 18 years old

#### 1. [NOT-OD-16-011](#) [Implementing Rigor and Transparency in Research Grant Applications and Career Development](#) [NOT-OD-16-012](#) [Awards](#)

Updates to Application instructions and review language intended to enhance the reproducibility of research findings will take effect for most research grant applications and career development awards due on or after **January 25, 2016**. Updates include revisions to the application guide instructions for preparing your research strategy attachment; use of a new “Authentication of Key Biological and/or Chemical Resources” attachment; and additional rigor and transparency questions reviewers will be asked to consider when reviewing applications. Additional informational resources include a [website](#) for a description of reproducibility efforts for NIH applicants and grantees; and a [Frequently Asked Questions](#) page.

#### 2. [NOT-OD-16-006](#) [Simplification of the Vertebrate Animals Section \(VAS\) of NIH Grant Applications and Contract Proposals](#)

Changes have been made in the requirements of the VAS of grant applications, cooperative agreements and contracts. The VAS criteria are now simplified by the following changes: 1) a description of veterinary care is no longer required; 2) justification for the number of animals has been eliminated; and 3) a description of the method of euthanasia is required only if the method is not consistent with AVMA guidelines. The requirements will take place for all grant applications except Fellowship (F series) and Training (T series) grants for due dates on or after **January 25, 2015** and will take effect for all applications for due dates on or after **May 25, 2016**.

#### 3. [NOT-OD-16-010](#) [Inclusion of Children in Clinical Research: Change in NIH Definition](#)

Starting with applications due on or after **January 25, 2016**, for purposes of the inclusion policy, the age of a child will be defined as individuals under 18 years old instead of under 21 years old.

### Effective for applications submitted on or after May 25, 2016:

1. NIH will require the use of new application forms (FORMS-D), which will include new attachments
2. Additional flexibility regarding fonts allowed in the pdf attachments included in grant applications

#### 1. [NOT-OD-16-008](#) [New Form for PHS Awarding Component and Peer Review Requests](#)

Applicants who want to communicate requests pertinent to the assignment and initial peer review of applications must use a new PHS Assignment Request Form for applications due **May 25, 2016** or after. The form is optional, and use of the form does not require completion of all fields in the form (i.e., applicant may wish only to request a specific awarding component or study section assignment and leave the other fields on the form blank). The new form complements the Cover Letter Attachment, which NIH will no longer check for requests pertinent to the assignment and review of applications. The Cover Letter Attachment still may be used to communicate a variety of other issues, as specified in the application guidelines (i.e., reason for late submission).

#### 2. [NOT-OD-16-009](#) [Change of Font Guidelines](#)

For applications submitted for due dates on or after **May 25, 2016**, the following new guidelines apply for text in pdf attachments:

*Font Type:* Arial, Garamond, Georgia, Helvetica, Palatino Linotype, Times New Roman, Veranda

*Font Size:* Must be 11 points of larger (smaller text in figures, graphs, diagrams, and charts is acceptable as long as it is legible when the page is viewed at 100%).

*Type Density:* Must be no more than 15 characters per linear inch

*Line Spacing:* Must be no more than six lines per vertical inch

*Text Color:* Must be black (color text in figures, graphs, diagrams, charts, tables, footnotes and headings is acceptable as long as it is legible)

Since some PDF converters may reduce font size, it is important to confirm that the final PDF document complies with the font requirements.

## Also Please Note:

### 1. [NOT-OD-16-004](#) Clarification of Biosketch Instructions

NIH will release a new application guide by March 2016 that will include clarification of biosketch instructions for application due dates on or after May 25, 2016. Clarifications will include: a) providing the URL for a publication list is optional and if provided, must be to a government website like My Bibliography; b) allowing publications and research products to be cited in both the personal statement and the contributions to science sections; and c) explicitly stating that graphics, figures and tables are not allowed.

### 2. [NOT-OD-16-005](#) Upcoming Changes to Post-Award Forms and Instructions

This Notice informs the research community of planned changes to policies, forms and instructions for interim and final progress reports, and other post-award documents associated with the monitoring, oversight, and closeout of an award. This Notice also applies to revised Ruth L. Kirschstein National Research Service Award (NSRA) forms. For information on significant changes and targeted effective dates, please see NIH Notice NOT-OD-16-005.

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## Significant Changes: FY 2016 NIH Grants Policy Statement

The [Significant Changes document](#) summarizes the notable grants policy changes and clarifications that will be implemented in the FY 2016 NIH Grants Policy Statement, which is anticipated to be available in November. For further information, please see [NOT-OD-16-017](#).

## Announcement of NIH Plans for the Environmental Influences on Child Health Outcomes (ECHO) Program

Following the closure of the National Children's Study in fiscal year (FY) 2015, Dr. Francis Collins, the NIH Director, emphasized the importance of and need for research addressing the links between the environment and child health and development. The new program for FY 2016 will investigate questions of interest at the intersection of environmental health and pediatric research and will focus on four key pediatric outcomes (Focus Areas) – upper and lower airway; obesity; pre-, peri-, and postnatal outcomes; and neurodevelopment. For further information, please see [NOT-OD-16-015](#)

## Request for Information: Randomized Controlled Trials (RCTs) of Lifestyle Weight Loss Interventions for Genome Wide Association Studies

The NIH seeks information regarding the availability of existing large RCTs of lifestyle weight loss interventions for adults with available GWAS data or biospecimens that could be used for genome wide studies, either using GWAS arrays or next generation sequencing (whole-exome or whole-genome sequencing). Biospecimens of interest include whole blood, buffy coat, saliva, blood spot or stored DNA samples which provide DNA of adequate quality and quantity for genome wide studies. Responses to the RFI will be accepted until December 4, 2015 at [collinsta@mail.nih.gov](mailto:collinsta@mail.nih.gov). For further information, including a list of topics the NIH is seeking comments on, please see [NOT-CA-15-042](#).

## Request for Information (RFI): Inviting Comments and Suggestions on the Priorities specified for the NIH-wide Rehabilitation Research Plan

NIH is developing a 5-year NIH-wide Research Plan to define the priorities in the area of Rehabilitation Research that is intended to benefit individuals with temporary or chronic limitations in physical, cognitive, or sensory function that require rehabilitation care. This RFI seeks input from the research community and the general public about the proposed priorities, which are listed in the Notice. Responses must be submitted electronically to [Rehabilitation1@mail.nih.gov](mailto:Rehabilitation1@mail.nih.gov) by December 11, 2015, 11:59:59 (ET). [NOT-HD-15-032](#).

## Request for Information (RFI): Updating the Alzheimer's Disease-Related Dementias (ADRD) Research Priorities

NINDS, in collaboration with NIA, will convene the Alzheimer's Disease-Related Dementias Summit 2016 in March 2016 to address progress and revise and update the recommendations from the ADRD: Research Challenges and Opportunities 2013 Summit. This RFI seeks input from the research community, patients, advocates, and the broader community on the most important needs and promising opportunities for research on ADRDs, and comments/suggestions regarding the ADRD 2013 research recommendations. Responses will be accepted until December 18, 2015 using the web-based format at: [http://www.ninds.nih.gov/funding/RFI\\_ADRD.htm](http://www.ninds.nih.gov/funding/RFI_ADRD.htm). [NOT-NS-15-045](#)

## NIH Funding Opportunities: Requests for Applications (RFA)

### January 2016 Due Dates

#### [RFA-MH-16-750 \(R01\)](#)

##### **BRAIN Initiative: Foundations of Non-Invasive Functional Human Brain Imaging and Recording – Bridging Scales and Modalities**

This FOA aims to support transformative discoveries that will lead to breakthroughs in understanding human brain function and specifically seeks to support efforts that will revolutionize our understanding of the biological activity underlying, and bioinformatic content of, data collected using contemporary non-invasive functional brain imaging techniques.

**Application Due Date:** January 6, 2016

#### [RFA-AG-16-020 \(UH2/UH3\)](#)

##### **Impact of Aging on Currently Employed Animal Models of Disease and Chronic Conditions: Demonstration Projects**

The goal of this FOA is to test whether or not the ages of laboratory animals is an important consideration in experimental outcomes in the study of disease pathology, degenerative condition, response to therapy, intervention or environmental exposure. This FOA will provide funds for demonstration projects to address two questions: 1. Does the age of the model organism influence experimental outcomes?; and 2. Are older animals better models of experimental studies for conditions, interventions, diseases or exposures for which aging is a risk factor of the human condition (for which the model was developed)?

**Application Due Date:** January 6, 2016

#### [RFA-AG-16-021 \(U2C\)](#)

##### **Collaborative Aging (in Place) Research Using Technology (CART)**

This FOA develops and validates the infrastructure for rapid and effective conduct of future research utilizing technology to facilitate aging in place, with a special emphasis on people from underrepresented groups. This FOA is designed to support CART by developing and validating a research infrastructure that has the capacity to integrate data across different projects, incorporates existing technologies, and can accommodate future technologies, designed to assess and intervene across a variety of observational and clinical research studies and settings, and for a range of measures, diseases and populations.

**Application Due Date:** January 12, 2016

#### [RFA-AG-16-022 \(R01\)](#)

##### **Aging Research on Stress and Resilience to Address Health Disparities in the United States**

The purpose of this FOA is to stimulate interdisciplinary health-disparities research related to aging that considers the role that stress, stress response, and stress resilience play in differential health outcomes in priority health disparity populations in the U.S. In particular, this FOA seeks applications proposing to clarify pathways linking stress and aging-relevant health outcomes (e.g. mortality, cognitive impairment, multiple chronic conditions, disability, and quality of life) through the investigation of links between environmental, sociocultural, behavioral, and biological factors.

**Application Due Date:** January 13, 2016

#### [RFA-HD-16-033 \(R01\) and RFA-HD-16-034 \(R21\)](#)

##### **HIV-infected Adolescents: Transitioning from Pediatric to the Adult Care Settings (R01)**

The purpose of this FOA is to solicit applications on transition of HIV-infected youth to adult care with the goal of developing an evidence base to support guidelines applicable to low, middle, and high income countries.

**Application Due Date:** January 14, 2016

#### [RFA-AT-16-005 \(R61/R33\)](#)

##### **Phased Innovation Award for Mechanistic Studies to Optimize Mind and Body Interventions in NCCIH High Priority Research Topics**

This FOA encourages a phased research approach to strengthen our understanding and utilization of the underlying mechanisms and processes associated with mind and body interventions. This FOA will support two-phased research applications to (1) uncover the underlying biological, neurological, physiological, and/or behavioral mechanisms or processes relevant to mind and body interventions (e.g. meditation, spinal manipulation, massage, yoga, tai chi, hypnosis, acupuncture) and then, (2) to utilize the results from the initial phase to improve, refine, enhance, or strengthen the identified mechanisms or processes through either rigorous validation and refinement of the intervention, or using combined approaches that, together, will modulate the underlying mechanism or process.

**Application Due Date:** January 15, 2015

[RFA-AT-16-006 \(R33\)](#)

**Innovation Award for Mechanistic Studies to Optimize Mind and Body Interventions in NCCIH High Priority Research Topics**

The purpose of this FOA is to strengthen our understanding and utilization of the underlying mechanisms and processes associated with mind and body interventions. This FOA will support mechanistic studies of complementary or integrative mind and body interventions in human subjects (e.g. meditation, spinal manipulation, massage, yoga, tai chi, hypnosis, acupuncture). Studies supported by this FOA will utilize the results from prior mechanistic studies to improve, refine, enhance, or strengthen the proposed mechanisms or processes through rigorous validation and refinement of the intervention, or using combined approaches that, together, will modulate the underlying mechanism or process.

**Application Due Date:** January 15, 2016

[RFA-HL-16-012 \(UM1\)](#)

**Household Air Pollution (HAP) Health Outcomes Trial**

This FOA seeks applications for a cooperative agreement research grant to conduct a clinical trial across three or more Low and Middle Income Country settings to test improved stove and fuel interventions on health outcomes in exposed populations. In addition, each application must include a biomarker center element for the development and validation of clinical, physiological, chemical, biochemical and/or microbiological markers of: a) exposure, and b) pathophysiological responses.

**Application Due Date:** January 19, 2015

[RFA-CA-15-018 \(Processing Genomic Data Center\)](#)

[RFA-CA-15-019 \(Visualization Genomic Data Center\)](#)

[RFA-CA-15-020 \(Specialized Genomic Data Center\)](#)

**Genomic Data Analysis Networks (U24)**

These FOAs are part of a cancer genomics program supported by the NCI and managed by its Center for Cancer Genomics. The overall goal of all CCG programs is to help elucidate the mechanisms of cancer initiation and evolution, as well as resistance to therapy by means of genomic characterization of well-annotated, high quality tumor samples. The collective goal for all types of Genomic Data Analysis Centers is to enable the cancer research community to develop tools and strategies to analyze the data generated from large-scale genomics projects and support the scientific community at-large in their investigation of the results.

**Application Due Date:** January 27, 2016

[RFA-RM-15-006 \(DP5\)](#)

**NIH Director's Early Independence Awards**

The NIH Director's Early Independence Award Program supports exceptional investigators who wish to pursue independent research directly after completion of their terminal doctoral/research degree or clinical residency, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. *Only up to two applications per institution are allowed; if interested in applying, please contact Ken Tramposch at [ovpr.limitedsubmission@research.buffalo.edu](mailto:ovpr.limitedsubmission@research.buffalo.edu).*

**Application Due Date:** January 29, 2016

**February 2016 Due Dates**

[RFA-MH-17-150 \(R21\)](#)

**Adaptation/Optimization of Technology (ADOPTech) to Support Social Functioning**

The purpose of this FOA is to facilitate the development and testing of new, cutting-edge technologies to enhance functioning in individuals with social impairments. Projects funded under this FOA would create "social prosthetics": scalable technology or devices that would augment performance in this domain.

**Application Due Date:** February 3, 2016

[RFA-CA-15-024 \(UG3/UH3\)](#)

**Cancer Detection, Diagnosis, and Treatment Technologies for Global Health**

This FOA supports the development of cancer-relevant technologies suitable for use in low- and middle-income countries (LMICs). Specifically, the FOA solicits applications for projects to adapt, apply, and validate existing or emerging technologies into a new generation of user-friendly, low-cost technologies for imaging, detecting, diagnosing, preventing, and/or treating cancers in humans living in LMICs.

**Application Due Date:** February 9, 2016

[RFA-ES-15-017 \(R21\)](#); [RFA-ES-15-015 \(R03\)](#)

**Breast Cancer and the Environment Communication Research Initiative**

These FOAs encourage research projects focused on the process of effective communication of research findings about breast cancer and the environment. A central objective of this new initiative is to ensure that risk messaging is designed for dissemination and effectively implemented, and leads to individual behavior change or policy change. The ultimate goal is to provide the development, dissemination, and implementation communication-based prevention efforts to reduce the risk for breast cancer from environmental factors.

**Application Due Date:** February 10, 2016

[RFA-DK-15-025 \(DP3\)](#)

**Mechanisms Underlying the Contribution of Type 1 Diabetes Risk Associated Variants**

This FOA encourages research project grant applications from institutions/organizations for projects to characterize the genetic variations in human genomic regions that have been putatively associated with type 1 diabetes (T1D) and conduct follow-up functional studies of particular genetic variants.

**Application Due Date:** February 17, 2016

[RFA-DK-15-030 \(DP2\)](#)

**Type 1 Diabetes Pathfinder Award**

The goal is to support a small number of early stage investigators of exceptional creativity who propose bold and highly innovative new research approaches that have the potential to produce a major impact on broad, important problems in biomedical and behavioral research relevant to type 1 diabetes and its complications.

**Application Due Date:** February 17, 2016

**March 2016 Due Dates**

[RFA-DK-15-019 \(DP3\)](#)

**Research Using Biosamples and Subjects from Type 1 Diabetes Clinical Studies – Complications**

This FOA invites applications for studies on the complications of type 1 diabetes using subjects and/or samples from clinical studies on type 1 diabetes.

**Application Due Date:** March 3, 2016

[RFA-NR-16-003 \(R01\)](#)

**Promoting Caregiver Health Using Self-Management**

The purpose of this initiative is to stimulate research in promoting caregiver health using self-management. Caregiving is an important science area since the number of people living longer with chronic conditions is growing. Informal caregivers (lay caregivers) are defined as unpaid individuals (spouses, partners, family members, friends, or neighbors) involved in assisting others with activities of daily living and/or medical tasks. Formal caregivers are paid, delivering care in one's home or care settings (daycare, residential care facility) (Family Caregiver Alliance, 2012). This concept focuses on informal caregivers.

**Application Due Date:** March 3, 2016

[RFA-DK-16-014 \(R01\)](#)

**Elucidating HIV and HIV-treatment Associated Metabolic/Endocrine Dysfunction**

The goal of this FOA is to support innovative research in humans to elucidate the role of HIV infection, including relevant host conditions or antiretroviral therapy, on metabolic and endocrine dysfunction, as well as to support innovative research delineating the pathophysiology, etiology, risk or protective factors, and potential strategies to prevent, treat, or reverse endocrine and metabolic dysfunction in HIV-infected individuals. Proposed projects must involve human subjects with HIV infection or materials or data from HIV-infected individuals. Proposed projects must also be related to the mission of the Division of Diabetes, Endocrinology, and Metabolic Diseases within NIDDK.

**Application Due Date:** March 9, 2016

[RFA-KD-16-015 \(R01\)](#)

**Innovative Research in HIV in Kidney, Urology and Hematology**

This FOA invites applications for innovative research projects examining the basic and clinical aspects of HIV infection, treatment, and long-term sequelae as they relate to the mission of the Division of Kidney, Urologic and Hematologic Diseases within NIDDK (KUH/NIDDK).

**Application Due Date:** March 9, 2016

## Multiple Due Dates

### [RFA-ES-15-020 \(R01\)](#)

#### **Outstanding New Environmental Scientist (ONES) Award**

The ONES Award is intended to identify the most talented Early Stage Investigators (ESIs) who intend to make a long-term commitment to research in the Environmental Health Sciences and assist them in launching an innovative research program focused on the understanding of environmental exposure effects on people's health. *Only one application per school or college within a University will be accepted; if interested in applying, please contact R. Lorraine Collins, [rcollins@buffalo.edu](mailto:rcollins@buffalo.edu).*

**Application Due Dates:** February 26, 2016; February 28, 2017; February 27, 2018

## NIH Funding Opportunities: Program Announcement Reviewed by an Institute (PAR)

### [PAR-16-025 \(R50\)](#)

#### **NCI Research Specialist Award**

The Research Specialist Award is intended for research-oriented investigators with significant, relevant experience, who have shown clear evidence of productivity and research excellence in the field of their training, and who would like to support a research program, but not serve as independent investigators, with the goal of making significant contributions to behavioral, biomedical (basic or clinical), bioimaging or bioengineering research that is relevant to the NCI mission.

**Application Due Date:** February 9, 2016

### [PAR-16-009 \(P50\)](#)

#### **NIDA Research Center of Excellence Grant Program**

This FOA provides support for research Centers that (1) conduct drug abuse and addiction research in any area of NIDA's mission, (2) have outstanding innovative science, (3) are multidisciplinary, thematically integrated, synergistic, and (4) serve as national resource(s) to provide educational and outreach activities to drug abuse research communities, educational organizations, the general public, and policy makers in the NIDA research fields. A goal of this program is to create NIDA Centers that are national community resources for furthering drug abuse research by sharing their findings, their data, and their resources as appropriate for researchers to use and build upon and to advance research in this field.

**Application Due Dates:** September 25, 2016; September 25, 2017; September 25, 2018.

## NIH Funding Opportunities: Program Announcement with Set-Aside Funds (PAS)

### [PAS-16-018 \(R01\)](#)

#### **HIV/AIDS High Priority Drug Abuse Research**

The NIH has recently announced the [high priority research topics](#) for HIV/AIDS research for the next three to five years. This FOA is being issued to stimulate high priority research relevant to drug abuse and HIV/AIDS.

**Application Due Date:** Standard AIDS dates apply

## NIH Funding Opportunities: Program Announcements (PA)

### [PA-16-012 \(R01\); PA-16-011 \(R21\)](#)

#### **Examination of Survivorship Care Planning Efficacy and Impact**

Application Due Dates: Standard dates apply

**Expiration Date:** January 8, 2019

### [PA-16-032 \(R01\); PA-16-031 \(R21\)](#)

#### **Advancing Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants**

Application Due Dates: Standard dates apply

**Expiration Date:** September 8, 2019

## Funding Opportunities: Foundations

### American Heart Association

**Scientist Development Grant** supports highly promising beginning scientists in their progress toward independence by encouraging and adequately funding research projects that can bridge the gap between completion of research training and readiness for successful competition as an independent investigator. Research should be broadly related to cardiovascular function and disease and stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems. Applicants must hold a faculty/staff position up to and including the rank of assistant professor and have no more than four years since his/her first faculty/staff appointment (after receipt of doctoral degree). Award is up to \$77,000 per year, including 10% indirect costs, for three years.

**Application Due Date:** January 15, 2016

[American Heart Association, Scientist Development Grant](#)

**Grant-in-Aid** supports the most innovative and meritorious research projects from independent investigators. Research should be broadly related to cardiovascular function and disease and stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems. Award is up to \$77,000 per year, including 10% indirect costs, for two years.

**Application Due Date:** January 15, 2016

[American Heart Association, Grant-in-Aid](#)

**Predoctoral Fellowship** is designed to help students initiate careers in cardiovascular and stroke research by providing research assistance and training. Research should be broadly related to cardiovascular function and disease and stroke, or to related clinical, basic science, bioengineering or biotechnology, and public health problems. Applicants must be a full-time student working towards his/her degree and have completed initial coursework and be at the stage of their doctoral program where they can devote full-time effort to research or activities related to their development into independent researchers. Awards are \$22,950 annually, plus \$1,000/year for health insurance for two years.

**Application Due Date:** January 15, 2016

[American Heart Association, Predoctoral Fellowship](#)

**Postdoctoral Fellowship** helps trainees initiate careers in cardiovascular and stroke research while obtaining significant research results under the supervision of a sponsor or mentor and supports individuals before they are ready for some stage of independent research. Applicants must have no more than five years postdoctoral research training or experience. Stipends are based on the applicant's years of experience, plus \$1,000/year for health insurance for two years.

**Application Due Date:** January 15, 2016

[American Heart Association, Postdoctoral Fellowship](#)

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*“The secret of change is to focus all of your energy, not on fighting the old, but on building the new.”*

Socrates (Athenian philosopher)

