



Research Opportunities

Research Opportunities

This resource includes NIH T32 Research Training Grant programs, summer programs, and other opportunities for trainees and medical students interested in basic science research or clinical and translational research in vascular disease.

NIH T32 Vascular Research Training Grants

- Baylor College of Medicine Research Training in Vascular and Cardiac Surgery
- Harvard-Longwood Research Training in Vascular Surgery
- Medical University of South Carolina
- Northwestern University Feinberg School of Medicine?
- Stanford Cardiovascular Institute – Stanford University
- University of Michigan?
- University of Pittsburgh
- University of Wisconsin-Madison??
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?Summer Opportunities

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- University of Chicago Medical Center?

Other Opportunities

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- New York University Langone Hospital – Brooklyn

- University of Rochester Center for Medical Technology and Innovation (CMTI)?
 - White River Junction/ Dartmouth VA National Quality Scholars Fellowship Program
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Baylor College of Medicine Research Training in Vascular and Cardiac Surgery

The Baylor College of Medicine Research Training Program in Cardiovascular Surgery is designed to prepare MD surgical residents and PhD post-doctoral fellows for an academic career in vascular and cardiac surgical research.

The program provides salary and educational support to two (MD or PhD) trainees per year, for two years each. Postdoctoral MD and PhD trainees accepted into the program will engage in a mentored research project complemented by a set of core program activities, team science training, and responsible conduct of research training. All T32 faculty mentors have active research programs, have been successful in securing extramural funding, and have a strong commitment to training the next generation of vascular and cardiac surgeon-scientists and PhD investigators.

Selected trainee will enroll in the program from July 1, 2020 to June 30, 2022.

Eligibility

- US citizen or permanent resident
- Postdoctoral candidates who are MDs in their second or third year of surgical residency and PhD postdoctoral fellows, with a strong interest in vascular or cardiac research. Surgery resident applicants must be willing to delay the completion of their clinical training for two years.

For application instructions, interested applicants should send an inquiry to Barbara W. Trautner, M.D., Ph.D. trautner@bcm.edu .

Contact Information:

Dr. Scott LeMaire
One Baylor Plaza, Mail Stop 390
Houston, TX 77030
slemaire@bcm.edu
832-355-9942
?To learn more visit the Website

Harvard-Longwood Research Training in Vascular Surgery

This training program, the **Harvard-Longwood Research Training in Vascular Surgery program**, currently in its 26th year is designed to provide two years of intense basic and outcomes research training in vascular surgery for academic clinicians.

Trainees carry out their research projects under the guidance of a faculty advisor, selected from 20 renowned vascular researchers based at Harvard Medical School hospitals: the Beth Israel Deaconess Medical Center, Brigham and Women's, Children's Hospital, the Joslin Diabetes Institute, The Massachusetts Institute of Technology, and the

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Harvard School of Engineering and Applied Sciences. Laboratory training is supplemented by graduate level training at Harvard Medical School and Harvard's Faculty of Arts and Sciences, with course selection complementing laboratory endeavors.

Applicants should be US citizens or permanent residents who are resident physicians. Most will have completed either two or three years of surgical residency or five years of clinical training (i.e. are board eligible). Only those applicants with career goals in academic surgery, with a keen interest in basic research in vascular surgery, will be compatible. Candidates pursuing a fellowship during a program of clinical training must provide evidence that they will be accepted back into that program upon completion of their research training.

Selection is based on merit only, without bias to gender, sexual orientation, race, color, or ethnic origin.

Support:

NIH Stipend, benefits, and academic appointment at Harvard Medical School as a Research Fellow.

Contact Information:

Leena Pradhan-Nabzdyk, PhD
Harvard-Longwood Research Training Grant in Vascular Surgery
Beth Israel Deaconess Medical Center
99 Brookline Ave. RN-370H
Boston, MA 02215
lpradhan@bidmc.harvard.edu
617-667-0097
?To learn more visit the Website

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Medical University of South Carolina

The Cardiovascular Research Laboratory at the Medical University of South Carolina (MUSC) represents a collaboration among basic and translational scientists in Vascular Surgery, Cardiothoracic Surgery, and Cardiology. For those interested in Vascular Surgery, this team science approach supports complex investigations into the cell biology and pathophysiology of hypertension, abdominal aortic aneurysms (AAA), and thoracic aortic aneurysms (TAA). MD and PhD applicants are encouraged to apply with an opportunity to be funded by an institutional NIH T32 grant entitled "Training to Improve Cardiovascular Drug Therapies" whereby the post-doctoral participants benefit from weekly seminars to enrich the training experience. More specifically, the program is interested in providing scientific training to general surgery and integrated vascular surgery residents who are contemplating a career as an academic surgeon. In addition to hands-on instruction in benchtop and microsurgical techniques, the participant would become facile in completing basic statistical analysis, compiling presentations, and composing manuscripts. Attending educational conferences with the MUSC Division of Vascular Surgery is also encouraged.

We are currently recruiting to fill this position and the training experience complies with the academic calendar (running July 1 to June 30 each year with an opportunity to train for 2 years).

Please contact Dr. Ruddy for more information.

Contact Information:

Jean Marie Ruddy, MD
Associate Professor of Surgery
Division of Vascular Surgery
Medical University of South Carolina
30 Courtenay Drive, MSC 295

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Charleston, SC 29425
ruddy@musc.edu
843-847-1070
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Northwestern University Feinberg School of Medicine

The NIH-funded Vascular Surgery Scientist Training Program at Northwestern University is a two-year mentored research training program designed for surgical residents (MD/DO) in general, cardiac, and vascular surgery interested in vascular biology or vascular biomedical engineering careers. Our goal is to provide a seamless multidisciplinary environment in which the trainee may interact with a diverse group of distinguished research faculty. The T32 mechanism provides a stipend, tuition, fees for coursework, travel funds, and health insurance.

The key to this program is an individualized training plan developed by the mentor and trainee. The unique multidisciplinary environment provides trainees with opportunities to work with mentors from different disciplines. The goal of this program is to match the research interest of the trainee to mentors, coursework, seminars, meetings, and a research plan that will collectively provide the experience necessary to launch a successful career as a physician scientist. Trainees may select one of several tracks of study or a combination of tracks:

- Vascular biology with a basic science or translational emphasis,
- Clinical outcomes/health services research,
- Biomedical devices in partnership with the Biomedical Engineering Department,
- An integrated program designed by the trainee and his/her mentors.

Trainees who select the clinical outcomes/health services research track will pursue the Master of Science in Health Services and Outcomes Research degree program at NU.

We are currently recruiting for the positions that start on July 1, 2020. Candidates must hold either an MD or DO degree and must have completed at least two years of clinical training prior to enrolling in the program. Candidates must be U.S. citizens, noncitizen nationals, or have been lawfully admitted for permanent residence at the time of appointment. Minorities and women are encouraged to apply. Applicants will submit a written application along with three letters of recommendation.

For more information, contact:

Mark K. Eskandari, M.D.
Division of Vascular Surgery
Northwestern University
Feinberg School of Medicine
676 N. St. Clair, #650
Chicago, IL 60611
312/926-7775
marsha.blunt@nm.org

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Stanford Cardiovascular Institute – Stanford University

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Stanford Cardiovascular Institute (CVI) offers postdoctoral training fellowships for MDs and PhDs in vascular disease research. The NIH-funded T32 program "Mechanisms and Innovation in Vascular Disease" balances rigorous research training with directed educational curricula and career-development opportunities with the goal of producing independent researchers. The program emphasizes career development, publications, oral presentations, and grant submissions as the means of achieving this goal.

The program trains a total of six fellows over two years in the following areas of vascular medicine & research: Vascular Reactivity & Thrombosis, Vascular Regeneration & Development, Metabolic or Lifestyle Influences on Vascular Outcomes, Proteomic Markers & Genetic Determinants of Vascular Disease, Gender & Ethnicity Differences in Vascular Disease, and Vascular Bioengineering. Twenty-nine faculty mentors from eighteen different departments within the School of Medicine and the University provide a variety of angles from which to address fundamental questions about vascular disease.

A structured curriculum, well-defined mentorship, and both internal and external evaluations ensure that fellows receive training in both research and career development to prepare them for independent careers. All fellows undergo a minimum two-year training period, with strong encouragement to submit individual research proposals (NRSA and AHA) for the following year(s). Support for a second year is conditional on evidence of research progress. At times a third year is offered for the transition to independence. It is mandatory that in Year 1 the trainee and mentor will outline a career plan for transition to independence, which may include grant preparations for funding through a K08 mechanism or application to the existing K12.

Eligibility

- You must be a US citizen or permanent resident.
- You must not have already received more than 2 years of post-doctoral funding from NIH training grants (e.g., T32, NRSA).
- You must have a PhD, MD or equivalent degree by the start of training.

To learn more, contact:

David Preston
Cardiovascular Institute Program Manager
Cardiovascular Institute
265 Campus Drive, G1120; MC-5454
Stanford, CA 94305
Phone: (650) 725-7964
Fax: (650) 736-0234
preston@stanford.edu
To learn more visit the Website .

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University of Michigan

The University of Michigan Vascular Surgery T32 Program is currently on hold until April 2020. Please check back at that time.

The University of Michigan Vascular Surgery Program is seeking a post-doctoral trainee for an NIH funded T32 surgical scientist training grant in vascular disease entitled "Vascular Surgery: Research Training in Vascular Biology." Eligible candidates should have completed a minimum of 2 years of surgery training in any of the surgical disciplines. The trainee would be joining a research program that includes both a basic science/translational science pathway and/or a health services research pathway, along with a 2-year academic development curriculum. The program has world-class mentors in various surgical and medical disciplines. The trainee will need to provide proof of United States

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citizenship or permanent residency.

Interested applicants should send an inquiry to Maryann Hansen for further instructions (after April 2020).

Contact information (After April 2020):

Maryann Hansen
University of Michigan Medical Center
Section of Vascular Surgery
1500 E. Medical Center Dr., SPC 5867
CVC 5372
Ann Arbor, MI 48109-5867
Phone: (734) 936-7301
email: mhansenm@med.umich.edu

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University of Pittsburgh

The Division of Vascular Surgery at the University of Pittsburgh has an active National Institutes of Health T32 "Vascular Surgery Research Training" grant intended to support the training of academic vascular surgeon-scientists, as well as non-clinicians scientists interested in vascular biology with a strong translational component, bridging the gap from bench research to clinical care. The grant supports trainees interested in basic science research or clinical and translational research in cardiovascular disease under the supervision of leaders in the study of vascular biology, hemostasis, and nitric oxide biology, as well as in clinical and translational research. Trainees will acquire the investigational tools and experience that will serve as the groundwork for an academic career in either basic or clinical vascular research.

This two-year training program is open to surgeon-scientists who wish to pursue academic vascular surgery careers. The program is open to trainees who have completed 2-3 years of general surgery or integrated vascular surgery residency training. While the main targets for this training grant are vascular surgery trainees, exceptional non-clinician scientists who desire vascular research training with greater clinical application may also apply. Trainees will be assigned a primary mentor as well as team of secondary mentors that bring complementary expertise to their areas of investigation.

Applicants must be permanent residents or citizens of the United States and have already completed doctoral training with an MD or PhD degree. Applications from women and minorities are strongly encouraged. Positions are available for July 1.

Contact Information:

Dr. Edith Tzeng
Program Director, T32 VascTrain Grant
Professor of Surgery
University of Pittsburgh
Chief of Vascular Surgery, VAPHS
412-802-3025
tzenge@upmc.edu

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University of Wisconsin-Madison

The University of Wisconsin Vascular Surgery Research Training Program, funded by a T32 grant from the NIH

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(NHLBI), is a multidisciplinary and collaborative program that will train young physician/surgeons who have chosen to be vascular specialists, along with PhD scientists who have a research interest in vascular disease. The goal is to accelerate the performance of basic, translational and clinical research for vascular disease by producing future surgeons, scientists and engineers who will meet the great need for innovation in treatments for the growing population of patients.

The program will provide trainees with multiple opportunities for research activities and will foster the development of knowledge, competence, skills, professional attitude, and experience required for successful academic careers in independent NIH-funded research.

This program offers a two-year research opportunity including laboratory training in basic, translational, or clinical outcomes research in vascular disease. The training program comprises over 20 MD and/or PhD faculty from the University of Wisconsin and emphasizes multidisciplinary studies in vascular biology, drug delivery, and outcomes and health services research.

Surgical residents as well as recent PhD graduates with basic training in disciplines related to vascular disease are encouraged to apply. US citizenship or permanent residency is required. Individuals from underrepresented racial and ethnic groups, persons with disabilities, and women are encouraged to apply to NIH-funded research opportunities.

Contact Information:

Email: vascularsurgeryresearchtraining@surgery.wisc.edu

To learn more visit the Website .

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Washington University School of Medicine

The Mallinckrodt Institute of Radiology at Washington University School of Medicine is accepting applicants for an NIH funded T32 research position.

The research will focus on biochemical mechanisms of atherosclerosis and molecular imaging of plaque. Eligible candidates must be in residency/fellowship training, and a US citizen or permanent resident. Details of the position include:

- Position period is from August 1, 2019 to July 30, 2020.
- ~\$52-54K salary
- Covered health insurance expenses for individual
- \$1,500 of travel expenses to meetings/conferences
- Funds available for graduate classes in statistics and grant writing

For more information please visit the website .

Interested candidates can email Dr. Pamela Woodard at woodardp@wustl.edu and Dr. Mohamed Zayed at zayedm@wustl.edu .

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Harvard-Longwood Short Term Research Training in Vascular Surgery (NIH-T35)

The goal of this medical student fellowship sponsored by the NIH is to encourage the movement of technical innovation and relevant clinical findings from the laboratory to the vascular surgical community. The practice of medicine and the treatment of vascular disease become more and more challenging with each passing day. It is the hope of this fellowship that those who pursue this field will contribute to the advancement of medical care.

Eight medical student research fellowships are available for 8-12 weeks of summer research training in molecular and cell biology, biomechanics, coagulation and thrombosis, and angiogenesis, with a focus on clinically relevant problems such as atherogenesis, intimal hyperplasia, prosthetic/host interactions and thrombosis. Trainees will pursue a program of intense research activity. This training program is designed to provide medical students with an initial exposure to vascular surgery research.

Students will carry out their research projects under the guidance of a faculty advisor, selected from renowned vascular researchers based at four Harvard Medical School hospitals: the Beth Israel Deaconess Medical Center, Brigham and Women's Hospital and Children's Hospital Boston.

Selection of trainees is based on candidates' demonstrated ability. Applicants should be medical students who have completed at least one year of study at an LCME or DO accredited school. According to NIH requirements, students have to be US citizens or US Permanent Residents (green card holder). Selection is based on merit only, without bias to gender, sexual orientation, race, color, or ethnic origin. Stipend is based on NIH guidelines for predoctoral students dependent on the length of the fellowship.

Fellowships available: May 15, 2020

Deadline for application: January 15, 2020

Get more information and apply online .

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University of Chicago Medical Center

- Summer research opportunity for medical students
- Clinical research
- Application Deadline: N/A
- Opportunity is available for applicants from US

Contact Information:

Ross Milner, MD
University of Chicago Medical Center
rmilner1@uchicago.edu
5841 S. Maryland Avenue
MC 5028
Chicago, IL 60637
Phone (773) 702-6128

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Other Opportunities

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William H. Pearce, MD, Vascular Surgery Student Research Award: Division of Vascular Surgery, Northwestern University Feinberg School of Medicine

The Division of Vascular Surgery at Northwestern University Feinberg School of Medicine is soliciting applications for a 12-month mentored research experience for undergraduate and medical students to perform clinical or basic science research. This award is a one-year commitment of full-time research (35-40 hours per week). A stipend of \$20,000 will be provided to the awardee in equal installments after 6 months and 12 months, given that the trainee is in good standing and has completed the requirements stated below.

Awardees will perform their research projects under the guidance of a faculty mentor selected from vascular and/or cardiovascular researchers at Northwestern University. They will receive close faculty mentorship, integration with like-minded peers, and exposure to career development activities. The awardee will be required to present their findings at a national or regional meeting and at the Department of Surgery Research Conference.

Applications are due by April 15th. Awards will be given based on candidates' interest, commitment, and demonstrated ability. There will be one awardee per year.

For an application, please contact Marsha Blunt (Email:marsha.blunt@nm.org / Phone: 312-926-7775).

New York University Langone Hospital – Brooklyn

- Opportunity for US or Canadian medical student or general surgery resident
- Principal Investigator: Anil Hingorani
- Brooklyn, NY
- Description: Multiple projects involving arterial, venous, arteriovenous access, carotid, aneurysm disease. Clinical projects and basic science

Contact Information:

Anil Hingorani MD
New York University Langone Hospital - Brooklyn
Brooklyn, NY 11209
Phone: 718-438-3800
Fax: 718-438-3131
Email: Anil.Hingorani@nyulangone.org

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University of Rochester Center for Medical Technology and Innovation (CMTI)

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- University of Rochester School of Medicine and Dentistry and the Hajim School of Engineering and Applied Sciences
- Rochester, NY
- Target audience: Medical Student or Resident with B.S. in engineering

Description:

The mission of the CMTI is to create innovative device solutions to focused clinical problems through a cross-disciplinary collaboration. The program intends to directly affect improvement in patient care and outcomes while promoting a unique education in both clinical cardiovascular care and bioengineering design. This one-year program culminates in a M.S. Degree in Biomedical Engineering. All interested participants are required to have an undergraduate degree in any engineering discipline. Applications will be accepted through the graduate Biomedical Engineering program as linked on the program website.

Contact Information:

Spencer Rosero, MD
(585) 275-4775
Website

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White River Junction/ Dartmouth VA National Quality Scholars Fellowship Program

The VA Quality Scholars (VAQS) Fellowship Program, established in 1999, is a two year interdisciplinary program designed to teach physicians the skills to critically assess the medical literature, conduct and publish original research, and lead the improvement of health care delivery. The purpose is to develop the next generation of leaders working to improve health care quality and outcomes through research, implementation, teaching and administration. Individual mentoring and a core curriculum are critical components of the program.

Fellows will be provided with exceptional training and experience in both outcomes research and quality improvement and leadership.

Outcomes Research, learning to:

- Design, conduct, and evaluate research on the effectiveness of healthcare practices
- Successfully approach grant writing and funding

Quality Improvement & Leadership, learning to:

- Design, lead, and evaluate clinical quality improvement efforts
- Lead and administer clinical programs and facilities

Curriculum Components:

- Individualized project and career mentoring
- Masters degree (MS or MPH) at The Dartmouth Institute for Health Policy and Clinical Practice (TDI)
- Weekly research-in-progress conferences
- Biweekly curriculum on quality improvement led by national experts
- National meeting attendance and presentations
- Flexible clinical opportunities

Who Can Apply?

Residents, fellows, or physicians in practice in any clinical discipline, who will have completed ACGME-accredited residency (and/or fellowship) training; are Board Eligible or Board Certified; and have an active, unrestricted U.S. license to practice. Opportunities also exist for surgical residents in training.

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Website: <http://www.vaqs.org/>

Contact

Cory Gaudette

Veterans Health Administration VA Medical Center

Research Service

215 North Main Street

White River Junction, VT 05009-3833

Cory.Gaudette@va.gov

telephone: 802 295 9363 x5290

fax: 802 295 9363

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