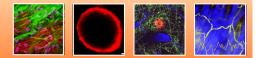
# DIVISION OF INTERDISCIPLINARY TRAINING



National Institute of Biomedical Imaging and Bioengineering



### **NIBIB Contact**

Zeynep Erim, Ph.D. Acting Director Division of Interdisciplinary Training Main: 301-451-4792 <u>erimz@mail.nih.gov</u> www.nibib.nih.gov



## Introduction

The mission of the National Institute of Biomedical Imaging and Bioengineering (NIBIB) is to improve human health by leading the development and accelerating the application of biomedical technologies. The Institute is committed to integrating the physical and engineering sciences with the life sciences to advance basic research and medical care.

To attract and train bright and talented researchers, the NIBIB provides support in a broad range of training programs. These include disciplinary programs to support and bridge areas of NIBIB relevance, multidisciplinary programs to promote the clinical translation of emerging technology, and interdisciplinary programs to train a new cadre of researchers working at the intersection of the biological and physical sciences. These programs are designed to support researchers throughout the career continuum, increase the number of clinician-scientists, and enhance the participation of underrepresented populations in biomedical imaging and bioengineering research.

### Undergraduate Training

### Enhancing Science, Technology, Engineering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (R25)

Supports educational activities that enhance the diversity of the biomedical workforce through early preparation for undergraduate students in STEM fields.

### Team-Based Design in Biomedical Engineering (R25) Awards

Provides support for new or existing design courses in which undergraduate students work in teams on open-ended biomedical design projects.

#### Biomedical Engineering Summer Internship Program (BESIP)

Provides undergraduate biomedical engineering students the opportunity to participate in cutting-edge biomedical research projects at NIH intramural laboratories.

### Design by Biomedical Undergraduate Teams (DEBUT) Challenge

Awards \$45,000 in prizes to teams of undergraduate students working on projects offering innovative solutions to unmet clinical and health problems.

### Pre- and Post-Doctoral Training

#### Ruth L. Kirschstein National Research Service Awards (NRSA)

Supports predoctoral students working toward research degrees and postdoctoral fellows pursuing research in mentors' laboratories.

### Institutional NRSA Awards

### T32 – Institutional Research Training

Awards support focused predoctoral and postdoctoral research training programs in biomedical engineering for graduate students, postdoctoral fellows, and radiology residents, as well as broad based multidisciplinary and interdisciplinary research training integrating engineering with the biological, computational, and physical sciences. **T35 – Short-Term Institutional Research Training Awards** 

Supports short-term clinical or translational research experiences for biomedical engineering graduate students.

### Individual NRSA Awards

#### F30 – Individual Predoctoral MD/PhD or Other Dual-Doctoral Degree Fellowships for Students at Institutions Without NIH-Funded Institutional Predoctoral Dual-Degree Training Programs

Provides support for the integrated research and clinical training of promising predoctoral students who are matriculated in a dual-doctoral degree training program.

#### F31 – Individual Predoctoral Fellowships to Promote Diversity in Health-Related Research

Offers up to two years of doctoral training support to individuals from under-represented racial and ethnic groups, persons with disabilities, and those from disadvantaged backgrounds.

#### F32 – Individual Postdoctoral Fellowships

Provides postdoctoral training support for qualified individuals who have received the Ph.D. (or equivalent) degree.

# **DIVISION OF INTERDISCIPLINARY TRAINING**



# **Career Development Awards**

Career development awards provide salary and laboratory support for postdoctoral fellows transitioning to faculty positions and junior faculty who are changing research fields or need protected research time during critical periods of their careers.

## **Transitional Career Development**

### Pathway to Independence (K99/Roo) Awards

Offers funding for both mentored training (K99) and independent research (Roo), shortening the time between postdoctoral training and research independence.

## **Basic Career Development**

### K01 – Mentored Research Scientist Development Awards

Provides basic researchers who wish to obtain experience in an area different from their doctoral or postdoctoral research focus up to four years of mentored research support as they transition to research independence.

### K25 – Mentored Quantitative Research Career Development Awards

Provides up to four years of mentored research support to individuals with quantitative backgrounds but little experience in biology or medicine who wish to refocus their research on biomedical research.

### **Clinical Career Development**

### Ko8 – Mentored Clinical Scientist Development Awards

Offers clinician-scientists up to four years of mentored research support as they transition to research independence.

### K23 – Mentored Patient-Oriented Research Career Development Awards

Provides clinically trained professionals with up to four years of mentored patient-oriented research support as they transition to research independence.

# **Cross-Training Opportunities**

## NIBIB Supplements to NCATS CTSA Programs

Offers support to an NIBIB Translational Research Scholar to facilitate a partnership with a clinician-scientist to conduct a translational science research project. The project is expected to be jointly conceived and require significant contribution from both partners.

# Conference/Meeting Awards (R13)

Supports attendance at national conferences and meetings that significantly impact the scientific fields relevant to the NIBIB mission. Priority is given to applications that encourage the participation of students, fellows, and junior faculty, especially members of underrepresented groups.

## Academic Research Enhancement Awards (AREA–R15)

Provides up to three years of support for biomedical research conducted by faculty and students at academic institutions that have not been major recipients of NIH research awards.

# **Research Supplements**

### **Research Supplements to Promote Diversity in** Health-Related Research Awards

Supports individuals from underrepresented racial and ethnic groups, persons with disabilities, and those from disadvantaged backgrounds.

### **Research Supplements for Career Reentry Awards**

Enables talented fellows and early-career faculty with high research potential to reenter an active research career after a qualifying interruption for family or other responsibilities.

# NIBIB Contacts

Please contact the following program staff with questions about the above programs. We welcome the opportunity to speak with potential applicants about our training programs.

More information at https://www.nibib.nih.gov/training-careers

Zeynep Erim, Ph.D. Acting Director, Division of Interdisciplinary Training (DIDT) 301-451-4792 erimz@mail.nih.gov

Tiffani Lash, Ph.D. Program Director 301-451-4778 baileyti@mail.nih.gov

Ahmad El-Hendawy [C] Scientific Program Analyst 301-827-4594 <u>ahmad.el-hendawy@nih.gov</u>