

Building the Primary Care Research Workforce: NIH/NHLBI Career Development Resources

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National Institutes
of Health



National Heart, Lung,
and Blood Institute

THE NATION'S RESEARCH LEADER IN THE PREVENTION AND
TREATMENT OF HEART, LUNG, BLOOD, AND SLEEP DISORDERS



National Heart, Lung,
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Physician (Clinician) Scientists declining

- NIH-appointed [Biomedical Workforce Working Group \(2012\)](#) and [Physician-Scientist Workforce Working Group \(2014\)](#):
 - Physician scientist workforce (PSW): clinically-trained and engaged in independent biomedical research (MD, MD/PhD, DO, DDS/DMD, DVM/VMD, RN/PhD)
 - Growing deficiency in the pool of physician scientists who are sufficiently trained to become academic, independent, tenure-track scientists
 - MD-PhD programs are successful in training academicians (75-80% independent academic faculty), but are *only 3% of the MD pool*
 - The MD-only pool entering academic scientific careers is diminishing at a significant rate
 - Despite robust NIH investment in PSW training/LRP, emerging PS research workforce has declined over the past 5 years; consequently this workforce is aging

Physician (Clinician) Scientist Challenges

- Medical education costs
- Lengthy training to obtain clinical and scientific research competency
 - Discontinuity of research training from medical school to faculty
 - Vulnerable transition between clinical/research fellowship and independent research endeavor
- Competing demands with clinical/teaching requirements, especially as it relates to salary support
- Insufficient mentorship

PBRNs as a primary care researcher incubator

- Integration of research and clinical care
- Developmental Network of peers/mentors
- “Laboratory” ripe for trainees in high priority research areas:
 - Prevention of HLBS Conditions
 - Dissemination and Implementation research
 - Pragmatic clinical trials
 - Data Science
 - Health Equity
 - Community Engaged/Participatory Research

PBRN Research Methods (PBRM) Certificate Program



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Certificate Program in Practice-Based Research Methods

- Comprehensive curriculum
- Matched mentees and mentors
- has provided training to 50 new PBRN investigators
 - 2 graduates also participated in the 2018 NHLBI's Saunders-Watkins Leadership Workshop in Health Disparities and Implementation Research for Early-Stage Investigators

<https://www.cdnetwork.org/pbrn>



Research opportunities for every career stage

NIH programs help to prepare the skilled, creative and diverse biomedical research workforce of tomorrow



Undergraduate and Postbaccalaureate Education

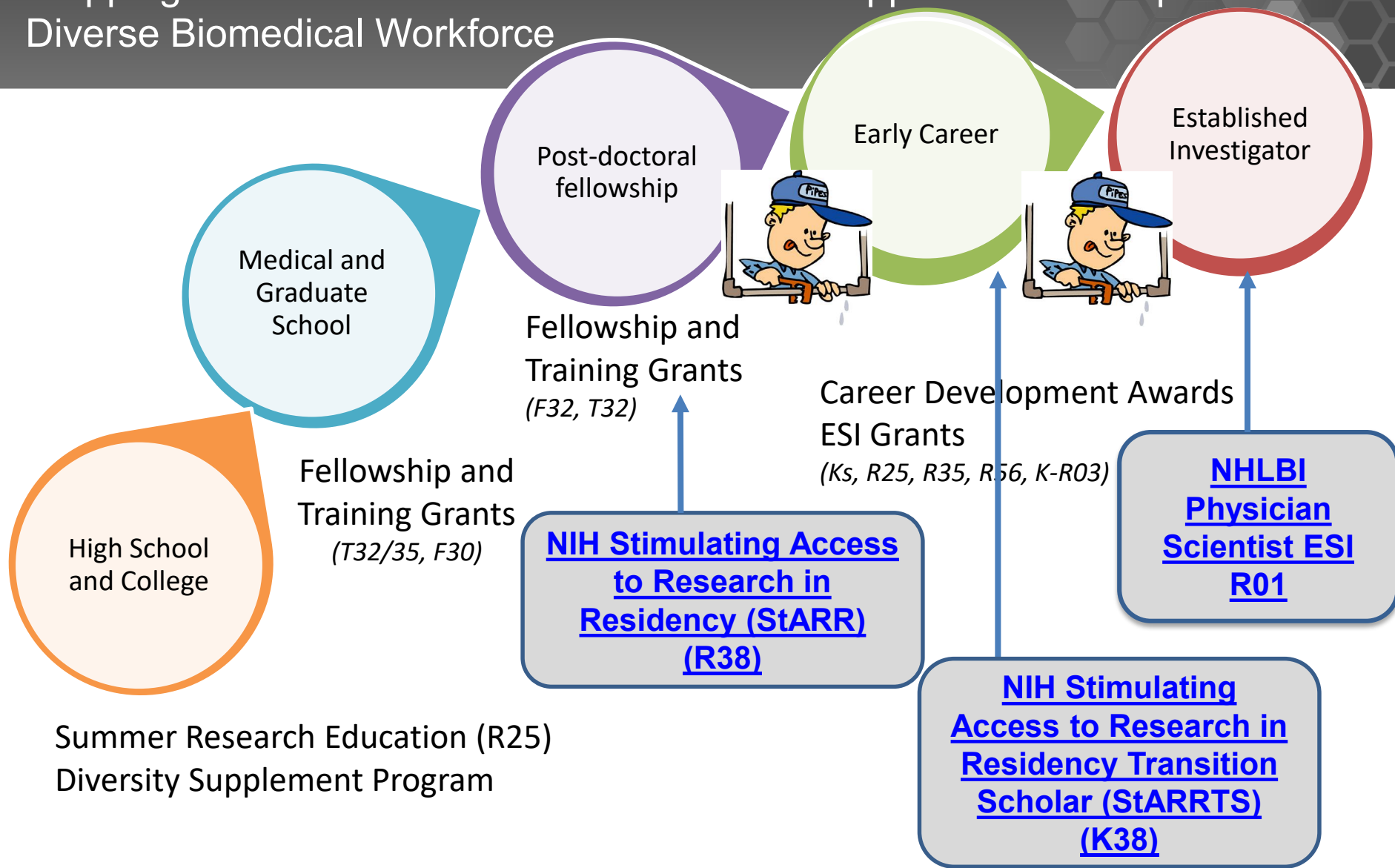
Predocotoral Training/
Clinical Doctorate

Postdoctoral Training/
Clinical Residency

Early Research Career
Development

Investigator
Development and
Mentoring

Stepping Stones to Success: Mechanisms to Support the Development of a Diverse Biomedical Workforce



NIH Statement on Diversity

U.S. Department of Health & Human Services > National Institutes of Health > Office of Extramural Research >



Information about how NIH promotes a diverse scientific research workforce

[Notice of NIH's Interest in Diversity](#)

Notice Number: NOT-OD-20-031

Key Dates

Release Date: November 22, 2019

<https://extramural-diversity.nih.gov/>

<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-031.html>



NHLBI Diversity Training Programs

- Diversity Supplements
 - NHLBI “parent award”, e.g., R01s
 - High School→Early Career faculty
- T32 Training
 - T32 Training Program for Institutions That Promote Diversity
 - Additional T32 training slots to Enhance Research Training Workforce Diversity
- Diversity K01

NIH Loan Repayment Program

U.S. Department of Health & Human Services National Institutes of Health

FAQs A-Z Index



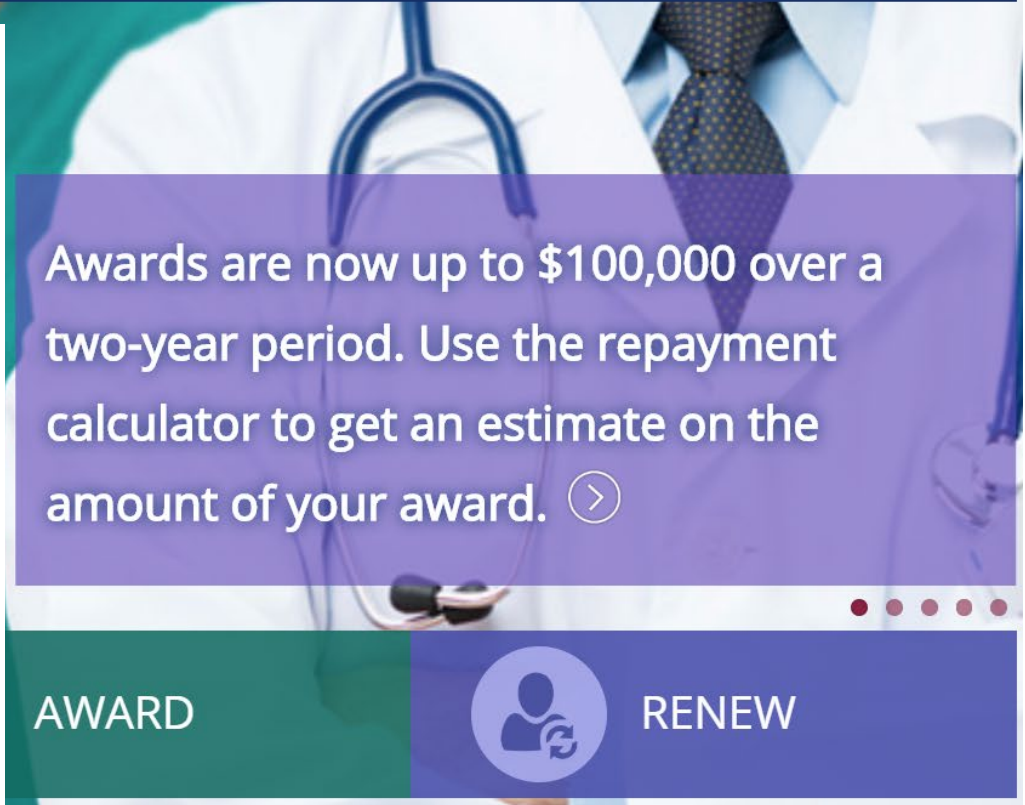
Eligibility & Programs

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About DLR

- Designed to recruit and retain highly qualified health professionals into biomedical or biobehavioral research careers.
- The escalating costs of advanced education and training in medicine and clinical specialties are forcing some scientists to abandon their research careers for higher-paying private industry or private practice careers.
- The LRPs counteract that financial pressure by repaying up to \$50,000 annually of a researcher's qualified educational debt in return for a commitment to engage in NIH mission-relevant research.
- There are eight LRPs, five for researchers not employed by NIH (Extramural) and three for researchers employed by NIH (Intramural).



Awards are now up to \$100,000 over a two-year period. Use the repayment calculator to get an estimate on the amount of your award. >

AWARD



RENEW

<https://www.lrp.nih.gov/>

Questions?



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