National Institute of Allergy and Infectious Diseases

Overview of NIAID Research Training and Career Development Programs

2023 ASBMB Finding the Funds Webinar

November 8, 2023

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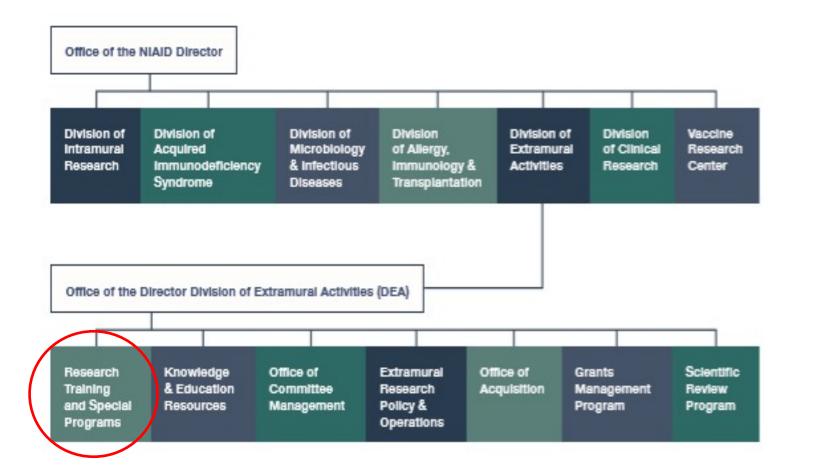
NIAID Mission

To conduct and support basic and applied research to better understand, treat, and ultimately prevent infectious, immunologic, and allergic diseases. NIAID has a unique mandate, which requires the Institute to respond to emerging public health threats.



Office of Research Training and Special Programs (ORTSP)

NIAID Organizational Chart





Office of Research Training and Special Programs (ORTSP)

- Under the NIAID Division of Extramural Activities, ORTSP manages:
 - Research Training and Career Development Programs
 - Small Business Programs
 - Scientific Workforce Diversity Programs
 - The NIAID Loan Repayment Program
 - Health Equity Research
 - Global Health Research Capacity Building and Foreign Risk Mitigation activities
 - ...and more



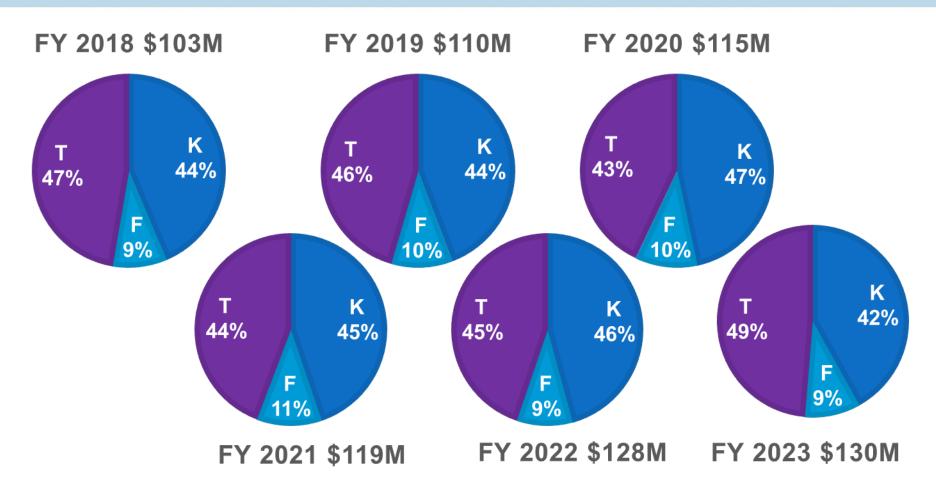
ORTSP Key Functions in Training Programs

- Provides the DEA Director, senior staff within the NIAID scientific divisions, and NIAID Leadership with advice, program management, and guidance on matters pertaining to research training
 - Includes the participation of individuals underrepresented in biomedical research
- Serves as focal point for establishing NIAID-wide goals for Training and Career Development Grant Programs in areas of interest to NIAID
- Coordinates Training Programs across the Institute
- Provides outreach and resources to the extramural community





What is the NIAID Budget for Research Training?



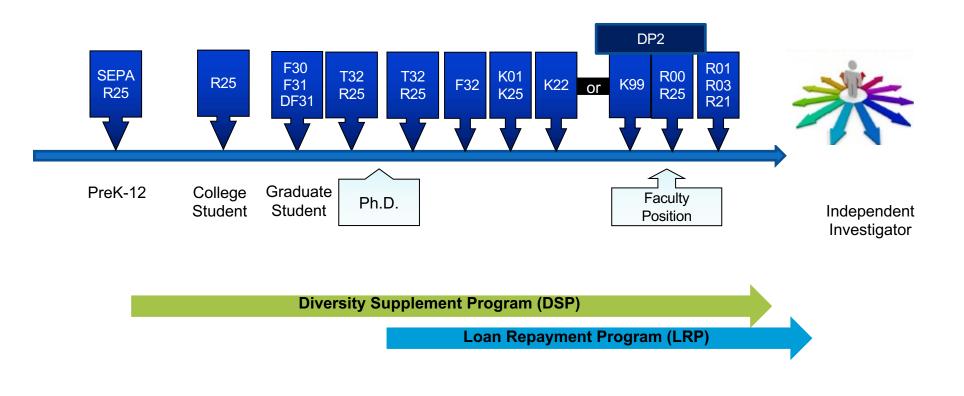
Institutional (T) and Fellowship (F) National Research Service Awards (NRSA) and (K) Career Development Awards

NIH National Institute Allergy and Infectious Diseases

NIAID Office of Mission Integration and Financial Management (OMIFM), 2023

NIAID's Research Training Continuum

Research Career Track (e.g., PhD, Dr. PH)

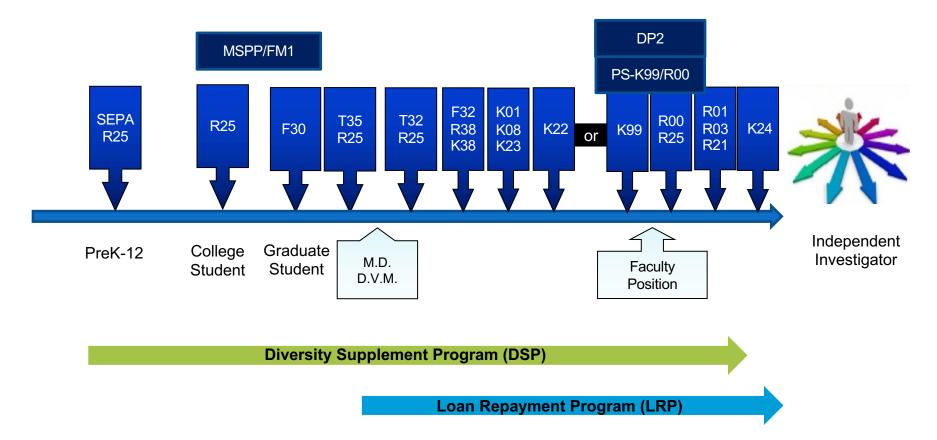




https://www.niaid.nih.gov/grants-contracts/choose-award-career-stage

NIAID's Research Training Continuum

Health Professional Track (e.g., MD, DVM)





https://www.niaid.nih.gov/grants-contracts/choose-award-career-stage

NIH Medical Scientist Partnership Program (MSPP/FM1) PAR-23-109

1. New FY 2024 initiative supports predoctoral candidates interested in pursuing both a clinical degree (e.g., MD, DDS, DVM) and a PhD and wish to conduct their dissertation research in an NIH intramural lab

- Does not need to be a formal dual program
- NIH intramural funding support while engaged in doctoral research
- Supports extramural portion of the training in a medical, dental, or veterinary school for a maximum of 4 years
- Covers stipend, tuition, and fees based at NRSA support levels

2. Mentor and research project are <u>not</u> needed to be identified at the time of application

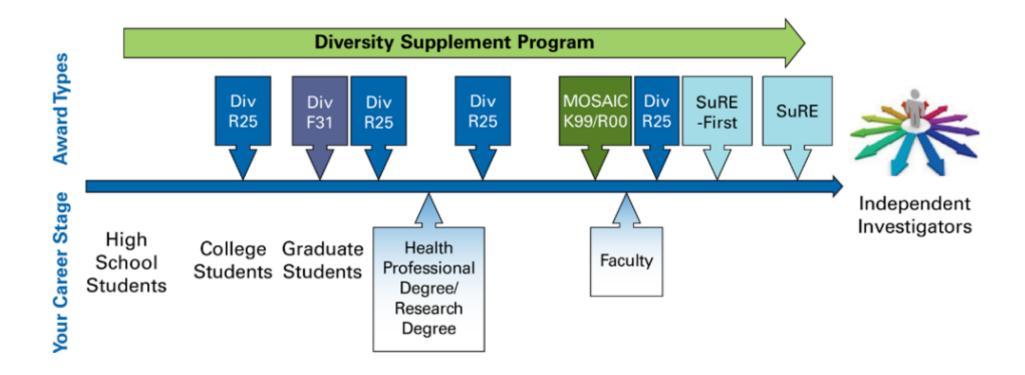
Finalized at the time of award

Applications primarily focus on candidates' qualifications, accomplishments, research experience, and commitment to a research career

3. Replaces NIGMS Medical Scientist Training Program (MSTP) for combined degree students at MSTP schools (dissertation research at NIH) sunsetting in 2024



NIAID's Research Training Continuum



Support for Workforce Diversity



NIAID's Current K Mechanisms: Research Career Development "K" Awards

K Category	Program	Candidate	Eligibility	
	NIAID K22	Ph.D. (and M.D.)	Postdoc with no more than <u>5</u> years postdoc training	
	NIAID PS* K99/R00	M.D.	Postdoc with no more than <u>4</u> years postdoc training Can be a non-US citizen	
Transition (postdoc → faculty)	K99/R00	Ph.D. (and M.D.)		
	K99/R00- MOSAIC (Diversity)	Ph.D. (and M.D.)	Postdoc with no more than <u>4</u> years postdoc training	
Clinician (MD, DDS, DVM, etc.)	K38 (StARR Scholars limited)	M.D.		
	K08 (biomedical research)	M.D.	Fellow - Junior Faculty	
	K23 (POR [#] research)	M.D.		
	K24 (POR [#] research)	M.D.	Associate Professor with R01 or equivalent	
Targeted Research	K01 (epidemiology and data science $^+$)	Ph.D. (and M.D.)	Postdoc - Jr. Faculty	
	NHP [^] K01	Ph.D. (D.V.M and M.D.)	Assistant Professor	
	K25 (quantitative scientist transition to bio)	Ph.D.	Postdoc - Jr. Faculty	



National Instant PS = Physician Scientists #POR= Patient Oriented Research +Includes but is not limited to computational modeling, bioinformatics, big data and advanced statistical analyses in the prevention, treatment, discovery, prediction or forecasting of infectious, immunologic and/or allergic diseases. ^NHP = Nonhuman Primate

Specialized Programs

Program	Purpose
NIAID Research Education R25	Short-term research education opportunities
NIAID Diversity R25	Short-term research education opportunities directed towards diverse trainees
SuRE/SuRE-FIRST (R16)	Support for researchers at low-resource, minority serving institutions
StARR/StARRTS (R38/K38)	Research training opportunities for clinical residents
SEPA R25	PreK-12 science education opportunities
LRP (L30/40/60/70)	Loan repayment for researchers with qualifying student loan debt
BIRCWH K12 (co-funding)	ORWH program to support early career researchers interested in research on women's health and sex differences
New or At-Risk R01 Program (PAR-22-241)	To support research from New Investigators and At-Risk Investigators from diverse backgrounds, including investigators from underrepresented racial and ethnic groups, in order to enhance the diversity of R01-funded investigators.

NIAID's Supplement Programs

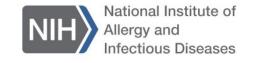
Program	Candidate Level	Eligibility
Diversity Supplements	High school through Junior Faculty	No concurrent PHS support for the candidate
SBIR/STTR Diversity Supplements	High school through Junior Faculty	No concurrent PHS support for the candidate
Reentry and Reintegration Supplements	Predoc through Faculty	6 month - 8 year research hiatus
Primary Caregiver Technical Assistance (PCTAS)	Postdoc	Postdoc must be in a NIAID funded lab for 1 year and be a primary caregiver
Research Continuity Supplements	Postdoc through Faculty	PIs of individual K awards and first-time PIs of R01 equivalent NIH grants



ORTSP POC: Raushanah Newman https://www.niaid.nih.gov/grants-contracts/research-supplements

Continuity Supplements For Critical Life Events

- Supplement program to support early career researchers experiencing a major life event (childbirth, eldercare, etc.)
 - Evidence must be provided that the circumstance impacted productivity
 - Can request a supplement in advance of the event
- Up to \$50,000 for 1 year in direct cost
 - Can be used to support additional personnel, supplies, equipment, and services
- K awardees: <u>NOT-OD-20-054</u>
- New Investigators with their first major RPG: <u>NOT-OD-20-055</u>



The NIH Loan Repayment Program (LRP)

Program Details

Clinical Research (L30)	 Patient-oriented research conducted with human subjects or materials of human origin (including cognitive phenomenon) on the causes and consequences of disease in humans
Pediatric Research (L40)	 Research related to diseases or disorders in children Basic research allowed
Health Disparities Research	 Research focusing on minority and other health disparity populations Basic, clinical, social and behavioral research allowed
Research in Emerging Areas Critical to Human Health (REACH, L70)	 Designed to recruit and retain researchers pursuing major opportunities or gaps in emerging areas of human health NIH ICs determine gap/emerging areas of research priority areas
Clinical Disadvantaged Backgrounds (L32)	 Research focus is same as Clinical Research LRP Available to clinical researchers from verifiable disadvantaged backgrounds
Contraception & Infertility & Research (L50)	 Research focusing on conditions impacting ability to conceive or bear children and provide new or improved methods of preventing pregnancy Applications reviewed by <i>Eunice Kennedy Shriver</i> NICHD



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nfectious Diseases	

Twitter:	https://twitter.com/NIH_LRP
Facebook:	www.facebook.com/nihlrp
Website:	https://www.lrp.nih.gov/

The NIH Loan Repayment Program (LRP)

Eligibility





National Institute of Allergy and Infectious Diseases Twitter:https://twitter.com/NIH_LRPFacebook:www.facebook.com/nihlrpWebsite:https://www.lrp.nih.gov/

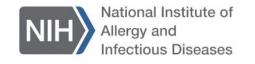
Program Benefits

Award Length

- New awards (Type 1) must be 2 years
- Renewal awards (Type 2) may be 1 or 2 years

Benefits

- Up to \$50,000/year in educational debt repayment
- 39% of loan repayment to cover Federal taxes
- LRP awards are portable





Resources

- NIAID Training Homepage: <u>https://www.niaid.nih.gov/grants-</u> <u>contracts/training-career-grant-</u> <u>programs</u>
 - F and K Sample Applications: <u>https://www.niaid.nih.gov/grants-</u> <u>contracts/sample-applications#k08</u>

AlTrainingHelpDesk@niaid.nih.gov



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Find a Funding Apply for a Opportunity	More Guidance on Training, Fellowship, and Career Awards
Training and Career D	Choose an Award by Career Stage
IIAID uses the following programs to develop and support t heir doctorates, or coming in from other fields. These award	To help you decide which award best suits your needs, use our career stage timelines. They show the grants that might be appropriate for where you are on the Ph.D. or M.D. track.
Award Types	
We award some grants to individuals, while others go to edu bages below and our <u>Choose an Award by Career Stage</u> guic	Know What To Look for When Choosing a Mentor Before you apply for an NIAID fellowship or mentored career development award, you'll need to find a principal investigator to serve as your mentor throughout the project.
raining Grants (T). National Research Service Award (NRS)	
arant (T35) provide domestic, nonprofit, and private or publi andidates.	Guidance on Training in the Responsible Conduct of Research
ellowship Grants (F) . National Research Service Award (NF tages of their careers.	Investigators trained with NIH support must receive formal instruction in the responsible conduct of research. Find advice and recommendations from NIAID staff on how your application can document prior instruction and present a plan for future instruction.
lesearch Career Development Awards (K). K awards enable	
wards can also have positive effects on your publication rec	Postdocs' Guide to Gaining Independence
.oan Repayment Programs. These programs repay qualifyir areers.	If you're a postdoctoral researcher currently working in your mentor's lab, we offer advice on how to lay the groundwork toward becoming a principal investigator of your own lab, most likely as a faculty member at an academic institution.
Research Supplements. These add funds to an existing grau eentering health research careers.	
Research Projects (R25 and R38). The NIAID Research Edu (R38) both provide support to eligible institutions to train pa	Salary Cap, Stipends, & Training Funds When you prepare your application budget, check the cap on the direct salary you can charge to a grant and the stipend levels. Learn how you can use training and fellowship award funds.

Questions?

Contact us at: AITrainingHelpDesk@niaid.nih.gov

