



National Institute of
General Medical Sciences



Division of Training
and Workforce
Development (TWD)

Overview of NIGMS Training, Research Education and Career Development Programs

September 16, 2026

Outline

- **Part I: Overview of NIGMS Training Opportunities**
 - Communications resources
 - General questions
- **Part II: Breakout sessions for new organizational opportunities**
 - Parent R25 – Research Experiences
 - Parent R25 – Courses, Curriculum, Methods Development + Mentoring Activities and Networks
 - Parent K12 – Institutional Career Development Award
 - *Clinician Scientist Research Independence*
 - *Academic Research and Teaching*

Disclaimer

- This presentation and accompanying slides are for informational purposes only.
 - Slides will be available on the [NIH NEXUS Calendar of Events](#) – Event Page
- They serve as an overview and are not meant to be comprehensive in coverage of all required components of an application.
- For any submission, applicants are responsible for following instructions detailed in:
 - [How to Application - Application Guide](#)
 - The Notice of Funding Opportunity (NOFO), and
 - Any Related Notices (see [Policy Change Notices](#))

Each NOFO has unique requirements – please read and follow them closely, and reach out to [NIGMS staff](#) with questions

NIGMS Team Training and Workforce Development (Team WD)



NIH Unified Funding Strategy

Director's Priorities include “Training future biomedical scientists”

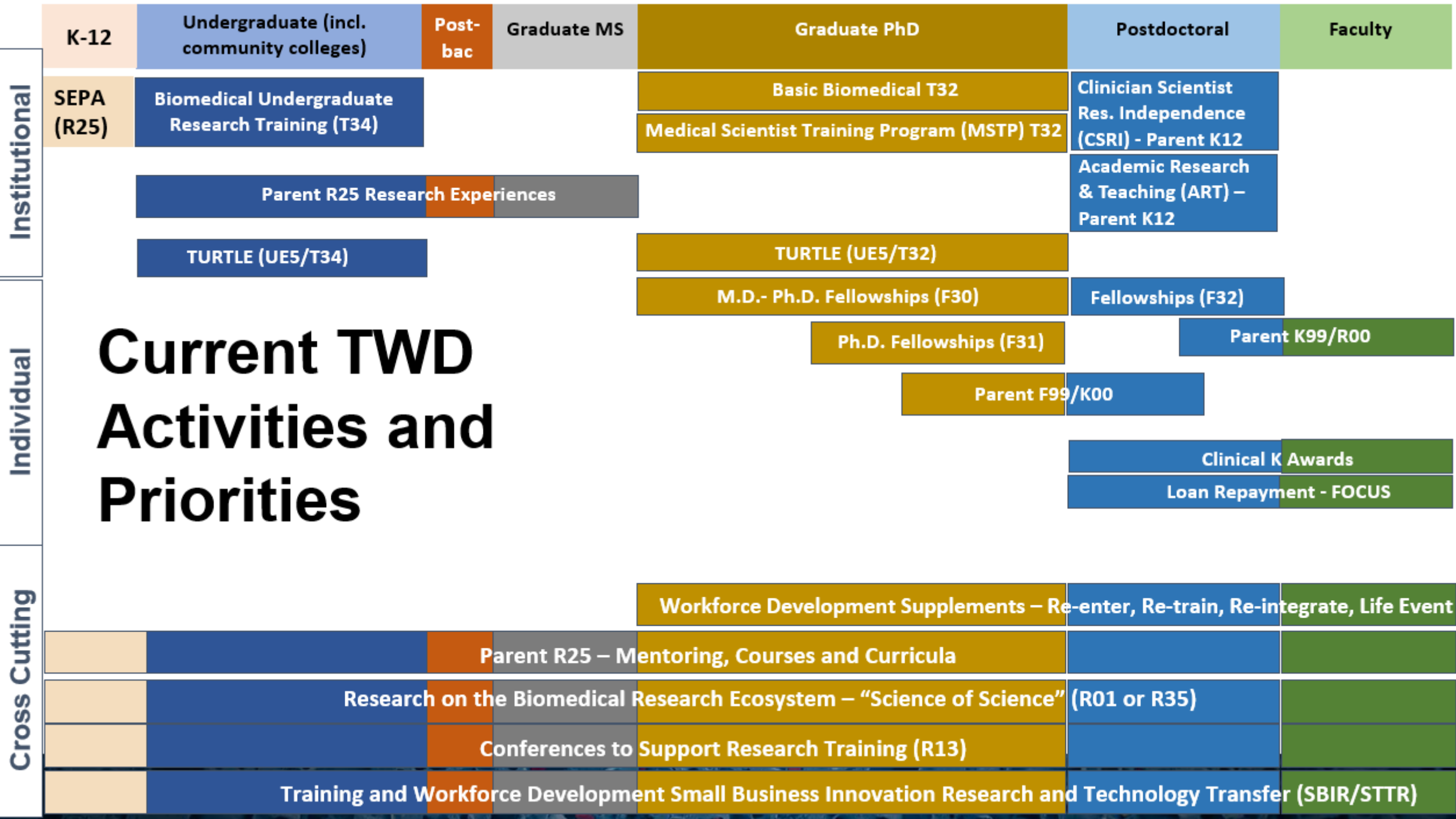
NIH training programs should focus on training future physicians and scientists to lead American preeminence in biomedical research in the 21st century. Programs should allow trainees to design and conduct the highest quality scientific studies. Importantly, these programs should be based on merit, follow civil rights law, and not discriminate against anyone. NIH and the institutions we support must also uphold safe, equal, and healthy working and learning conditions conducive to high-quality research and free inquiry.

[Advancing NIH's Mission Through a Unified Strategy | National Institutes of Health \(NIH\)](#)

NIGMS Research Training and Career Development Opportunities

TWD Goal, Strategies and Approaches

- **Goal:** Support as many promising future scientists in as many places as possible (*“anyone, anywhere”*) to foster a biomedical research enterprise that improves the health of all Americans (*“everyone, everywhere”*).
- **Strategy:** Promote opportunity across career stages, institution types and regions.
 - Encourage applications from [IDeA States](#), [HBCUs](#), Tribal Colleges and Universities, and Resource Limited Institutions
- **Approaches:**
 - Mentored research and career development experiences.
 - Supportive peer cohorts.
 - Support for individuals through critical career transitions.



NIGMS Institutional Training Opportunities

Program Area	Funding Opportunity	Contact + Notes
Biomedical Undergraduate Research Training (BURT) – T34	PAR-26-033	NIGMSBURTT34@nih.gov
Predoctoral Basic Biomedical Training – T32	PAR-23-228 – for due dates through September 25, 2026 PA-25-168 – for due dates on/after January 25, 2027	NIGMSPredocT32@mail.nih.gov Note: Please see NOT-GM-26-007 for updates on our basic biomedical training areas. <i>Forthcoming webinar on 10/29 at 2:30 PM ET (see NOT-GM-26-015 for more details)</i>
Medical Scientist Training Program (MSTP) – T32	PAR-24-128	NIGMSMSTPT32@nih.gov
Tribal Undergraduate to Graduate Research Training and Leadership Experiences (TURTLE) Program (UE5/T32 or UE5/T34)	PAR-24-235 (UE5/T32) PAR-24-236 (UE5/T34)	NIGMSTurtle@nigms.nih.gov Note: This opportunity is limited to eligible Tribal Entities

BURT T34 Program Goals

Goal: To strengthen research training environments and develop a pool of well-trained students who:

- Complete their baccalaureate degrees in biomedically-related fields, and
- Transition into and complete biomedical, research-focused higher degree programs (e.g., PhD or MD/PhD).

Eligible Organizations

- Enroll undergraduate students
- Have received <\$50M RPG (average) over the last three FY



Single Site



Community College Partnerships

Predoctoral Basic Biomedical Training (T32)

- **Goal:** To develop a pool of well-trained scientists available to address the nation's biomedical research agenda.
- Students are typically provided 1-2 years full-time support, strongly encouraged in early years of graduate training, and including activities beneficial to the trainees.
- Training grants are expected to have a strong influence on institutional research training & mentoring practices.
- **Reorganizing from 12 specialized to 8 broad areas for due dates on/after January 25, 2027 (see [NOT-GM-26-007](#)).**

Medical Scientist Training Program (MSTP)

- Goal is to develop a pool of well-trained clinician-scientist leaders available to address the nation's biomedical research needs.
- The [*Advancing Health and Development \(AHeAD\)*](#) track of this program strengthens the ability for the clinician scientist workforce to improve the health of every American community. MSTP AHeAD provides funding to dual-degree training programs at:
 - Organizations in an [*Institutional Development Award \(IDeA\)*](#)- eligible state,
 - [*Historically Black Colleges or Universities*](#), or
 - Federally recognized Tribal entities.

Tribal Undergraduate to Graduate Research Training and Leadership Experiences (TURTLE) Program

- Bi-phasic award to develop and implement training programs at Tribal entities
 - UE5 phase (up to 2 years): Develop the program
 - T34 or T32 phase (5 years): Implement training program
- Eligibility:
 - A federally recognized AI/AN Tribe, as defined under 25 U.S.C. 1603(14); or
 - A Tribal college or university, a Tribal health program, or a Tribal organization as defined under 25 U.S.C. 1603 (24), (25), and (26), respectively; or
 - A consortium of two or more of these Tribal Entities

NIGMS Research Education Opportunities

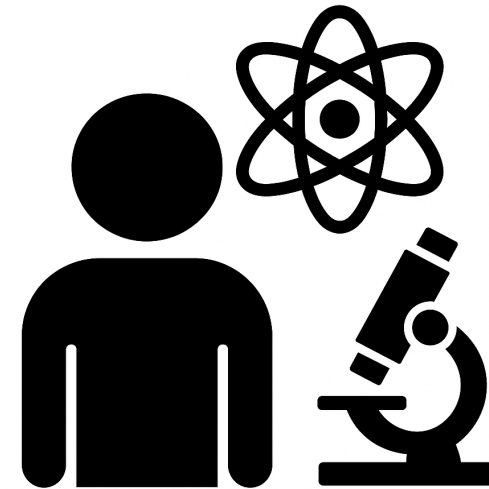
Program Area	Funding Opportunity	Contact
Science Education Partnership Award (SEPA)	<u>PAR-27-077</u>	<u>NIGMS_SEPA@mail.nih.gov</u>
NIH Research Education Program - Research Experiences	<u>PA-27-036</u>	<u>NIGMSR25research@nih.gov</u>
NIH Research Education Program - Courses, Curriculum & Methods	<u>PA-27-034</u>	<u>NIGMSR25courses@nih.gov</u>
NIH Research Education Program - Mentoring Activities & Networks	<u>PA-27-035</u>	<u>NIGMSR25mentoring@nih.gov</u>

SEPA Program Goals

- To support educational activities that **increase understanding of biomedical research** among pre-college (pre-kindergarten to grade12) individuals.



To encourage **awareness of and continued interest** in careers in science, technology, engineering, and mathematics (STEM).



NIGMS R25 Priorities

- Have broad reach, such as national applicant pools
- Cover multiple scientific fields relevant [to the NIGMS' mission.](#)
- Support participants who will significantly benefit, including those:
 - Without substantial previous research experience,
 - From resource-limited institutions, or
 - With circumstances that would otherwise prevent them from pursuing biomedical research, for example:
 - Financial hardship
 - Return from military service
 - Career delay or change
 - Family responsibilities

NIGMS Parent R25 Priorities

Research Experiences

- Prepare cohorts of students to transition to Ph.D. or M.D./Ph.D.
 - Summer undergraduate
 - Yearlong postbaccalaureate
 - Research-based master's programs

NIGMSR25research@nih.gov

Mentoring

- Equip cohorts of NIGMS K awardees to move to research independence (UE5)
 - F99/K00
 - K99/R00
 - Clinical K
- Address critical workforce needs as part of a formal mentoring structure

NIGMSR25mentoring@nih.gov

Courses, Curriculum or Methods Development

- Courses to equip participants with research or professional skills required for careers in the biomedical research workforce
- Programs to develop and disseminate innovative curriculum or instructional approach to improve biomedical research education at multiple secondary or postsecondary organizations.

NIGMSR25courses@nih.gov

Institutional Career Development

Program Area	Funding Opportunity	Contact + Notes
Institutional Mentored Career Development Award – K12	PA-27-030	Clinician-Scientist Career Development: NIGMSK12_CSRI@nih.gov Academic Research and Teaching: NIGMSK12_ART@mail.nih.gov

NIGMS Parent K12 Priorities

Clinician Scientist Research Independence (CSRI)

- Prepares postdoctoral clinician scientist scholars for independent, research careers in NIGMS-mission relevant clinical areas:
 - Anesthesiology
 - Clinical pharmacology
 - Injury and critical illness.

NIGMSK12_CSRI@nih.gov

Academic Research and Teaching (ART)

- Prepares early career postdoctoral scholars for academic careers that combine rigorous research and state-of-the art teaching approaches.
 - Mentored research
 - Mentored teaching at a distinct primarily undergraduate institution

NIGMSK12_ART@mail.nih.gov

Fellowship Opportunities

Program Area	Funding Opportunity	Contact + Notes
F30 - Predoctoral MD/PhD Fellowship for students at institutions <u>without</u> NIH funded Dual-Degree Training Programs	PA-25-425	NIGMSF30@nih.gov
F31- Individual Predoctoral Fellowship	PA-25-422	nigmsf31@mail.nih.gov
F99/K00 - Predoctoral to Postdoctoral Transition Award	PA-27-037	NIGMSF99@nih.gov
F32 - Individual Postdoctoral Fellowships	PA-25-423	NIGMSTWDF32@nigms.nih.gov
F33 - Individual Senior Fellowship	PA-25-424	NIGMSF33@nih.gov

Fellowship Priorities

- We prioritize applications relevant to all areas of our [mission](#) that demonstrate **compelling training needs** and **propose strong plans** to promote trainee skills and career development.
- **Predoctoral candidates**
 - With limited access to other NIH research training resources (F31).
 - Who have career goals that typically require postdoctoral training and will conduct NIGMS mission research in the K00 phase (F99/K00).
- **MD-PhD** students at institutions ***without*** NIH-funded institutional predoctoral dual-degree training programs (F30; F31 for Ph.D. training portion).
- **Postdoctoral candidates** with less than 2 years of postdoctoral experience at the time of application (F32).

Individual Career Development Opportunities

Program Area	Funding Opportunity	Contact + Notes
K99/R00 - Pathway to Independence Awards	PA-24-194	nigmsk99@nigms.nih.gov
K08 - Mentored Clinical Scientist Research Career Development Award	PA-24-182	NIGMSmentoredK@nih.gov
K23 - Mentored Patient-Oriented Research Career Development Award	PA-24-184	NIGMSmentoredK@nih.gov
K25 - Mentored Quantitative Research Development Award	PA-24-191	NIGMSmentoredK@nih.gov

Other Items of Note

- Highlighted Topic
 - [Advancing “Science of Science” Research to Understand and Strengthen the Biomedical Research Ecosystem](#)
- [Supplements](#) to support workforce development (life events, re-entry, re-training and re-tooling)
- [Conference grants](#) for workforce development
- [Loan Repayment](#) – up to \$100,000 for qualified educational debt

Loan Repayment Program

Loan Repayment Category	Additional Information
Clinical Research (L30)	Conducting patient-oriented clinical research with human subjects or research on disease in human populations involving material of human origin for which an investigator or colleague directly interacts with human subjects.
Pediatric Research (L40)	Conducting research directly related to diseases, disorders and other conditions in children , including pediatric pharmacological research.
Facilitating Opportunities in Cutting-edge Science (FOCUS, L70)	We accept FOCUS applications from: • PIs of active NIGMS F32 awards • PIs of active NIGMS individual mentored K awards • Trainees currently supported by active NIGMS Postdoctoral T32 awards • PIs of active R00, R15, and R16 awards

Applications accepted through November 19, 2026

Communications Resources

NIH Websites are Changing!



NIH Websites Are Changing

NIH is moving the launch of its new website to the fall to ensure the best possible experience for everyone who relies on our websites for health information, research, funding opportunities, and other resources.

[Get the Latest Updates and FAQs](#)



[Virtual Tour](#) | [En Español](#)

Search NIH

Search

<https://www.nih.gov/web-modernization>

NIH Funding Opportunities



- <https://grants.nih.gov/> is a central website to identify NIH related funding opportunities



New to NIH

Gain an understanding of key concepts like how the NIH structure impacts funding and how to get registered to do business with us, then explore the rest of the site to build on that foundation.



Grants Process Overview

Learn about the steps required for an application to proceed from planning and submission through award and closeout.



Find a Fit for Your Research

Learn about the missions, interest areas, and funding practices of each NIH Institute, Center, or Office (ICO). Explore highlighted topics of particular interest to NIH.

NIH Funding Opportunities (2)

The screenshot shows the NIH website homepage. At the top is a dark blue navigation bar with white text links: 'NEW TO NIH', 'FUNDING' (highlighted with a yellow border), 'GRANTS PROCESS', 'POLICY & COMPLIANCE', 'NEWS & EVENTS', and 'ABOUT US'. Below the navigation bar is a large hero image of a smiling woman with curly hair. Overlaid on the left side of the hero image is a white box with the text 'NIH Central Resource for Research Grants and Funding Information' and two buttons: 'Find Funding Opportunities' and 'How to Apply'. On the right side of the hero image, there is a blue box with the text 'Announcements' and a link 'Implementation of New Initiatives and Policies'. At the bottom of the page is a light blue section titled 'Just Getting Started?' which contains three columns of information, each with an icon and a title: 'New to NIH' (with a magnifying glass icon), 'Grants Process Overview' (with a document icon), and 'Find a Fit for Your Research' (with a puzzle piece icon).

NEW TO NIH

FUNDING

GRANTS PROCESS

POLICY & COMPLIANCE

NEWS & EVENTS

ABOUT US

NIH Central Resource for Research Grants and Funding Information

Find Funding Opportunities

How to Apply

Announcements

[Implementation of New Initiatives and Policies](#)

Just Getting Started?

 **New to NIH**
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Learn about the steps required for an application to proceed from planning and submission through award and closeout.

 **Find a Fit for Your Research**
Learn about the missions, interest areas, and funding practices of each NIH Institute, Center, or Office (ICO). Explore highlighted topics of particular interest to NIH.

- <https://grants.nih.gov/> is a central website to identify NIH related funding opportunities
- **Funding (Drop Down)**
 - Funding Categories

Funding Categories – Research Training and Career Development



[Home](#) > [Funding](#) > Funding Categories

Funding

Explore NIH Grant Opportunities ▶

Funding Categories ▼

Research Training and Career Development ▶

Research and Development ▶

Construction and Modernization ▶

Small Business ▶

Supplemental Funding ▶

Loan Repayment Programs ▶

Other Transactions

Contracts

Challenges and Prizes

Funding Categories

At any given time, NIH has over 1,000 active funding opportunities that use various funding instruments and announce a broad range of programs. Explore these categories for insight into the funding landscape and discover programs that may address your needs.

Research Training and Career Development

Training and career support for scientists, fellows, and trainees at the undergraduate, predoctoral, postdoctoral, early career, and mid-career levels.

Research and Development

NIH supports a wide variety of research and development programs, including capacity building, conferences and meetings, research projects (small, large, exploratory, pilots), and resource programs.

Construction and Modernization

NIH enhances biomedical research through support for construction, renovation, and modernization of new or existing physical infrastructure, e.g., buildings, facilities, laboratories, and fixed equipment.

Small Business

Support for U.S. small businesses (including minority-, women-, veteran-owned and HUBZone companies) to stimulate technological innovation, pursue research and development, and commercialize biomedical products in NIH areas of science.

Understanding Opportunities by Career Stage

Funding

← | [Back to Funding Categories](#)

Research Training and Career Development ▾

Individual Fellowships (F) ▸

Individual Career Development (K) ▸

Institutional Training (T) ▸

Research Education Programs ▸

Institutional Career Development and Other Training ▸

Research Training and Career Development

NIH Research Training and Career Development Programs help prepare individuals for careers in biomedical, behavioral, social, and clinical research.

New Home for Research Training and Career Development Information on the NIH Grants and Funding Website

Please update any researchtraining.nih.gov bookmarks you may have to the new pages! Redirected links are in place to help you find what you need in the meantime, or access the [archive](#).

On this page:

- [Browse by Career Stage](#)
- [Browse by Program Types](#)

Browse by Career Stage



Undergraduate

- [Institutional Training](#)



Predoctoral

- [Individual Fellowships](#)
- [Institutional Training](#)



Postdoctoral/Residency

- [Individual Fellowships](#)
- [Individual Career Development](#)
- [Institutional Training](#)
- [Institutional Career Development and Other Training](#)



Early Career

- [Individual Career Development](#)

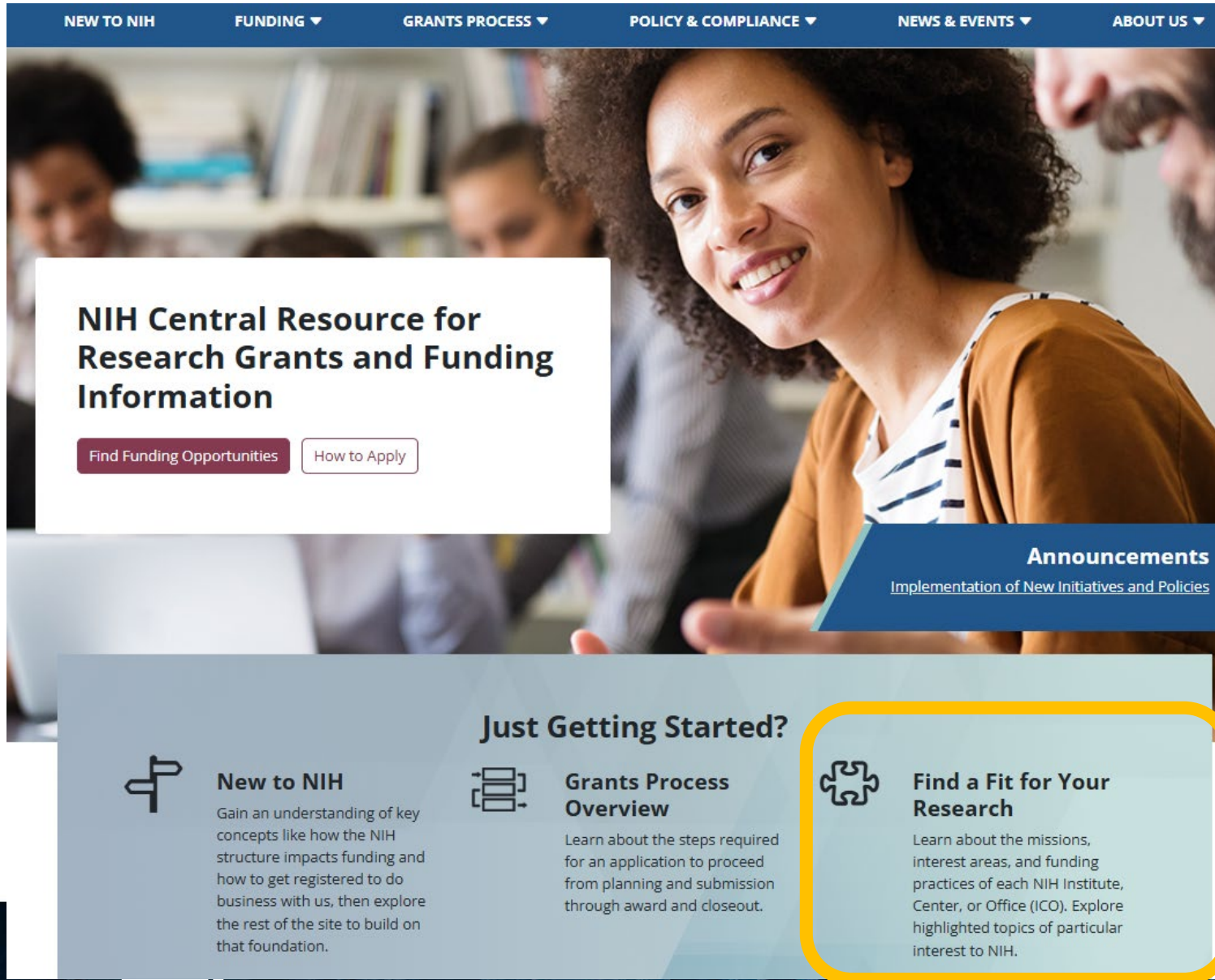


Established Investigator

- [Individual Fellowships](#)
- [Individual Career Development](#)
- [Institutional Career Development and Other Training](#)

Each institute, center and office (ICO) participates in various programs relevant to their mission.

NIH Funding Opportunities (3)



- <https://grants.nih.gov/> is a central website to identify NIH related funding opportunities
- **Funding (Drop Down)**
 - Funding Categories
- **“Find a Fit for Your Research”**
 - Institute, Center and Office (ICO) profiles

ICO Profile Pages

NIH ICO Grants & Funding Profiles

As the largest public funder of biomedical research in the world, NIH supports a variety of research and research-related programs. To get a grant, your project must fit the mission of at least one NIH Institute, Center, or Office (ICO) that participates in your chosen funding opportunity. Each NIH ICO has its own scientific mission, priorities, and budget.

Try the following strategies to identify relevant NIH programs likely to support your research area:

- Check the ICO profiles below and [Funding Categories](#).
- Consider [Highlighted Topics](#) for your next investigator-initiated grant application.
- [Explore NIH Funding Opportunities](#)
- Use [Matchmaker](#) to find relevant ICO program officials. Enter your draft specific aims, abstract, or other scientific text and choose the “Similar Program Officials” option. The search results list matching funding ICOs and NIH program officials. Reach out to best matching program officer first, and don't worry if it's not a perfect fit. If they're not the best match, they can direct you to who is. Learn more in the [Matchmaker Tool Video Tutorial](#).

The following NIH institutes, centers, and offices (ICOs) fund grant awards. Check each ICO's mission, interest areas, funding opportunities, and funding considerations.

Quick Links

FIC	NCATS	NCCIH	NCI	NEI	NHGRI
NHLBI	NIA	NIAAA	NIAID	NIAMS	NIBIB
NICHD	NIDA	NIDCD	NIDCR	NIDDK	NIEHS
NIGMS	NIMH	NIMHD	NINDS	NINR	NLM
NIH OD Offices					

NIGMS ICO Profile Page

National Institute of General Medical Sciences (NIGMS)

On this page:

- [Mission Statement](#)
- [Interest Areas](#)
- [Highlighted Topics](#)
- [Funding Opportunities](#)
- [NIGMS Policy Considerations](#)
- [Additional Information by Funding Category](#)

- “Additional Information by Funding Category”
 - See detailed information NIGMS’ Training interests

Mission Statement

The NIGMS Mission is to support basic research that increases our understanding of biological processes and lays the foundation for advances in disease diagnosis, treatment, and prevention. NIGMS also supports research in specific clinical areas that affect multiple organ systems: anesthesiology and peri-operative pain; clinical pharmacology common to multiple drugs and treatments; and injury, critical illness, sepsis, and wound healing. NIGMS-funded scientists investigate how living systems work at a range of levels—from molecules and cells to tissues and organs—in research organisms, humans, and populations. Additionally, to ensure the vitality and continued productivity of the research enterprise, NIGMS provides leadership in supporting the training of future scientists and developing research capacity throughout the country.

Additional Information by Funding Category

Additional Information by Funding Category

Administrative Supplements	+
Conferences and Meetings	+
Individual Career Development	+
Individual Fellowship	+
Institutional Career Development and Other Training	+
Institutional Training	+
Investigator-Focused Awards	+
Research Education	+
Research Projects	+
Small Business	+

- See detailed information on our priorities
 - Individual Career Development (Ks)
 - Individual Fellowship (Fs)
 - Institutional Career Development and Other Training (K12)
 - Institutional Training (T)
 - Research Education (R25)

Stay Up To Date – Subscribe!

- [NIH Guide to Grants and Contracts](#) – Relevant programmatic and policy updates + certain events (webinars)
- [Extramural Nexus Calendar of Events](#) – NIH Public events (including webinars)
- [NIGMS YouTube](#) - Applicant webinar videos

Stay In Touch

- General TWD Program Inbox:
NIGMSTrainingMail@nigms.nih.gov
- Grants Administration/Budgeting Questions:
 - For Fellowships and Training Grants:
NIGMSNRSAGABNOFO@nih.gov
 - All other TWD mechanisms (such as R25, K awards):
NIGMSTWDGABNOFO@nih.gov

Questions

- We'll now answer general questions for a few minutes
 - **Reminder: Predoc T32 webinar on 10/29 at 2:30 PM ET (see [NOT-GM-26-015](#) for more details)**
- **Up next – Program Specific Breakouts**
 - R25 – Research Experiences
 - R25 – Courses, Curriculum and Methods Development + Mentoring Activities and Networks
 - K12 – Institutional Career Development

Breakout sessions for new organizational opportunities



National Institute of
General Medical Sciences

Break Out Rooms

R25 - Research Experiences

- [PA-27-036](#)
- Program: Laurie Stepanek and Behrouz Davani
- Grants Administration: Jennifer Lynch

NIGMSR25research@nih.gov

R25 – Mentoring + Courses, Curriculum or Methods Development

- [PA-27-034](#)
- [PA-27-035](#)
- Program: Joyce Stamm and Kenneth Gibbs
- Grants Administration: Adam Barnhart

NIGMSR25mentoring@nih.gov
NIGMSR25courses@nih.gov

K12 – Institutional Career Development

- [PA-27-030](#)
- Program: Shakira Nelson, Jeremy McIntyre, Anissa Brown
- Grants Administration: Ilene Glassman

NIGMSK12_CSRI@nih.gov
NIGMSK12_ART@mail.nih.gov