Fundamentals of the NIH Grant Process & Need to Know Resources

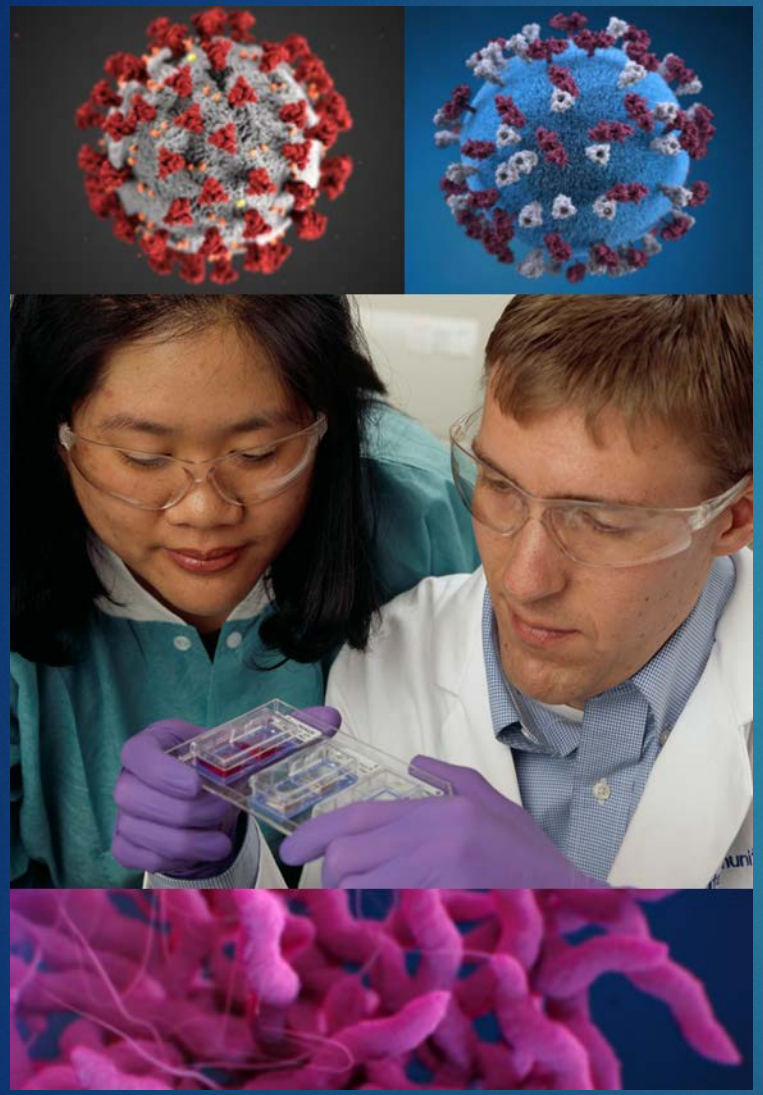
FALL 2020

NIH GRANTS & FUNDING
NIH Central Resource for Grants and Funding Information

Who We Are

Largest public funder of biomedical research in the world.

Clinical Center (Building 10), NIH Campus



NIH Mission

To seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.

NIH FY2019 By The Numbers

55,012 extramural grant awards totaling $29.466 billion

Supported research at 2,738 organizations

- Where do I start?
- Where's the funding?
- Where do I turn when I need help or advice?
- What opportunities are available & how can I find them?
- What's the application process & how long does it take?

Where do I start?

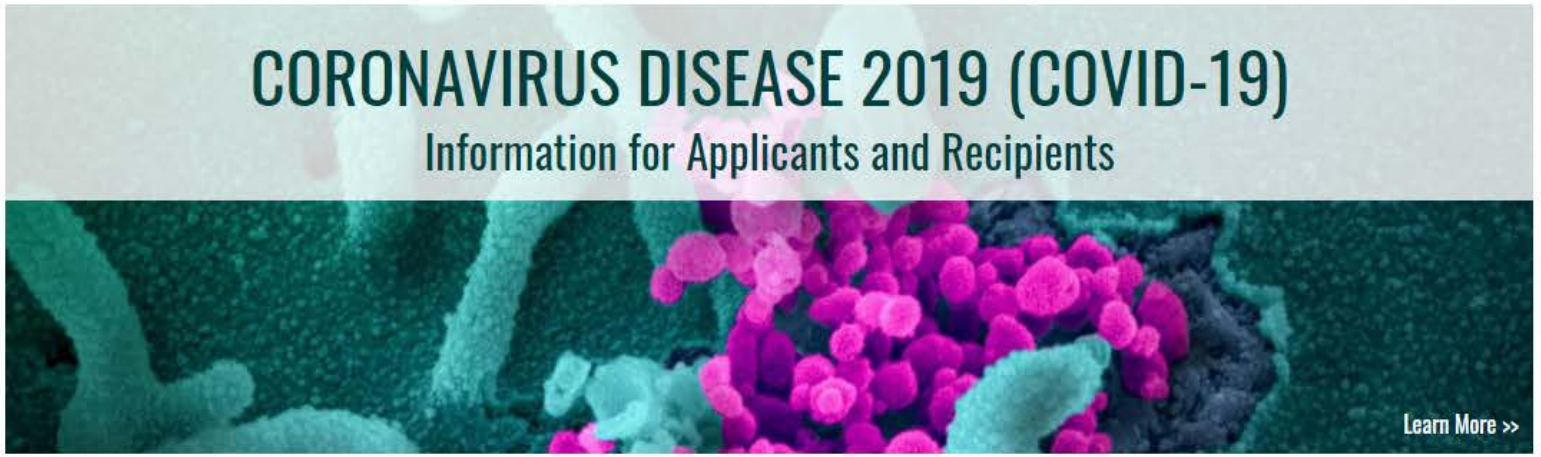
NIH **GRANTS & FUNDING**
NIH Central Resource for Grants and Funding Information

grants.nih.gov

Search this Site

eRA | NIH Staff | Glossary | FAQs | Help

HOME | ABOUT GRANTS | FUNDING | POLICY & COMPLIANCE | NEWS & EVENTS | ABOUT OER



- How to Apply
- Find Funding
- Funded Research (RePORT)
- Open Mike Blog
- News

ABOUT GRANTS

Navigate the NIH grants process.

- Grants Process Overview
- Get Started
- How to Apply
- Application Referral and Review
- Pre-Award and Post-Award Processes
- Forms Library

POLICY & COMPLIANCE

Learn about obligations of your grant award.

- NIH Grants Policy Statement
- Notices of Policy Changes
- Compliance and Oversight
- Select Policy Topics

INFORMATION FOR...

Find key resources just for you.

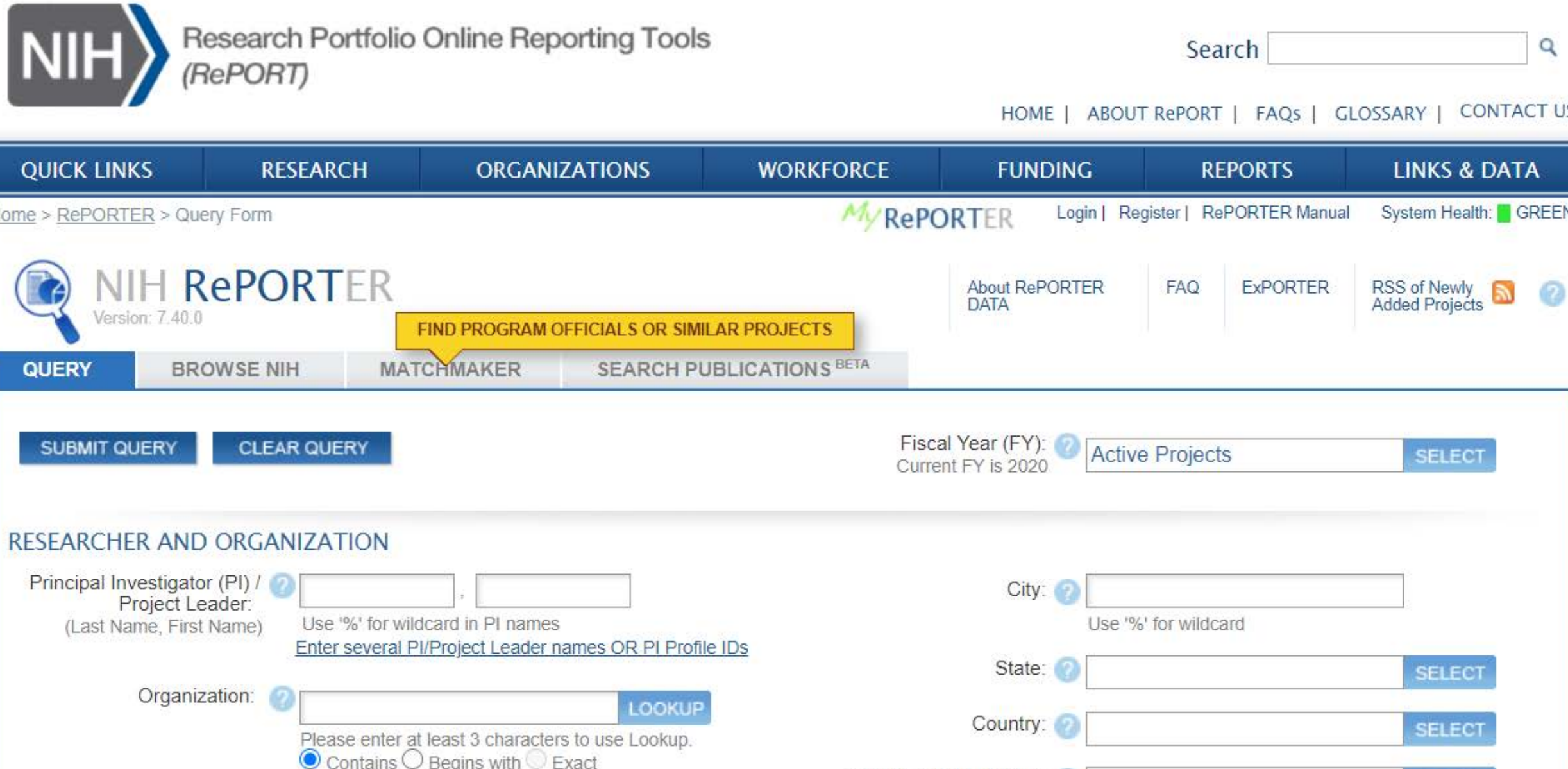
- Researchers
- Research Administrators
- Reviewers
- Small Businesses
- Foreign Applicants
- Media and the Public

Where’s the funding?

National **Institutes** of Health

- 27 Institutes and Centers (ICs)
- Each IC has its own
  - mission,
  - priorities,
  - budget, and
  - funding strategy.

RePORTER (projectreporter.nih.gov)



NIH RePORTER

Version: 7.40.0

Use Matchmaker to find similar projects and program officials

Enter abstracts or other scientific text and Matchmaker will return lists of similar projects from RePORTER or program officials associated with those projects. These matches are based on the terms and concepts used in the submitted text. Up to 15,000 characters are permitted. Matchmaker summarizes the projects by the program official, institute or center, review panel, and activity code.

VIEW TUTORIAL

Enter your Text:

Terms will be weighted by frequency of appearance in the text above. The process is automated and confidential. The Matchmaker system does not track and store submitted text.

Characters left: 15000

CLEAR | SIMILAR PROJECTS | SIMILAR PROGRAM OFFICIALS

NIH RePORTER

Version: 7.40.0

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VIEW TUTORIAL

Enter your Text:

The focus of this project is to gain new knowledge regarding the very early events following mucosal transmission of HIV. We are particularly focused on molecular interactions between the viral envelope and cell surface receptors that are expressed on CD4 + T cells. This information is fundamental to the development of an effective HIV vaccine. We have shown previously that the infection of a4b7-expressing CD4+ T cells is one of these early events. In addition, we showed that the HIV envelope protein gp120 binds directly to integrin a4b7 and that this interaction is mediated by the V2 domain of gp120. Our approach in 2019 was to define the types of monoclonal antibodies that interfere with this interaction. Such information will hopefully aid in the design and development of an effective HIV vaccine.

Terms will be weighted by frequency of appearance in the text above. The process is automated and confidential. The Matchmaker system does not track and store submitted text.

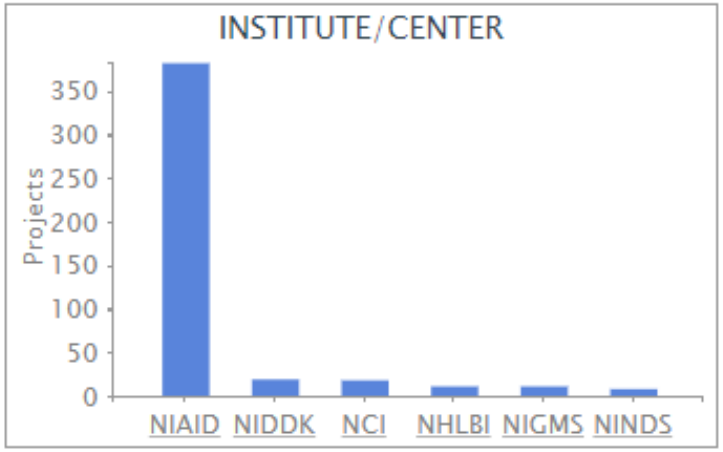
Characters left: 14189

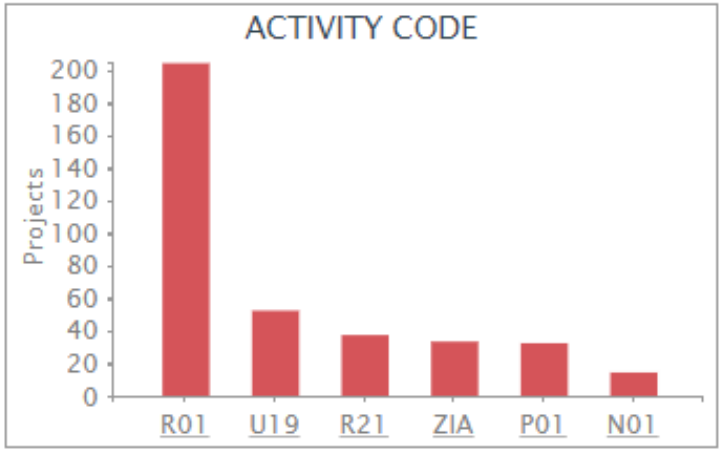
CLEAR | SIMILAR PROJECTS | SIMILAR PROGRAM OFFICIALS

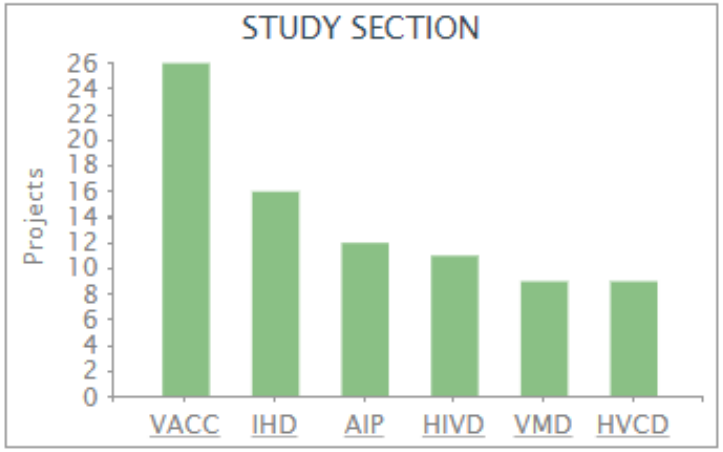
500 projects with similar concepts to the entered text. (500 maximum)

Click on chart labels to filter search results by the Institute/Center or Activity Code or Study Section

Click here to view detailed Charts







Click on the column header to sort the results

Records per page 25

1 2 3 4 ... 18 19 20

1 of 20 Next Last

T: Application Type; Act: Activity Code; Project: Admin IC,Serial No.; Year: Support Year/Supplement/Amendment

Match Score	T Act	Project	Year	Sub #	Project Title	Contact PI / Project Leader	Organization	FY	Admin IC	Funding IC	FY Total Cost by IC	Similar Projects
966	1 ZIA	AI000883	19		INTERACTION OF HIV ENVELOPE WITH CELL SURFACE RECEPTORS	FAUCI, ANTHONY S.		2019	NIAID	NIAID	$1,069,830	
722	1 ZIA	BC011126	12		DEVELOPMENT OF RATIONALLY DESIGNED HIV VACCINES	FRANCHINI, GENOVEFFA		2019	NCI	NCI	$4,231,061	
650	5 P01	AI124912	04		DURABLE ANTIBODY MEDIATED PROTECTION AGAINST HIV	GALLO, ROBERT C	UNIVERSITY OF MARYLAND BALTIMORE	2019	NIAID	NIAID	$3,389,755	
627	5 K22	AI127072	02		RETOOLING NATURAL KILLERS CELLS (NK) AND MUCOSAL INNATE LYMPHOID CELLS (ILCS) FOR AN EFFECTIVE HIV VACCINE	LIYANAGE, NAMAL	OHIO STATE UNIVERSITY	2019	NIAID	NIAID	$108,000	
620	1 ZIA	AI000887	19		ROLE OF HIV ENVELOPE PROTEINS IN VIRAL	FAUCI, ANTHONY S.		2019	NIAID	NIAID	$1,069,830	

PROJECTS | PROGRAM OFFICIAL

Matching Text

The focus of this project is to gain new knowledge regarding the very early events following mucosal transmission of HIV. We are particularly focused on molecular interactions between the viral envelope and cell surface receptors that are expressed on CD4 + T cells. This information is fundamental to the development of an effective HIV vaccine. We have shown previously that the infection of a4b7-expressing CD4+ T cells is one of these early events. In addition, we showed that the HIV envelope protein gp120 binds directly to integrin a4b7 and that this interaction is mediated by the V2 domain of gp120. Our approach in 2019 was to define the types of monoclonal antibodies that interfere with this interaction. Such information will hopefully aid in the design and development of an effective HIV vaccine.

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Fiscal Year (FY) Active Projects SELECT

Select options begin with FY 2007.

Exclude Subprojects?

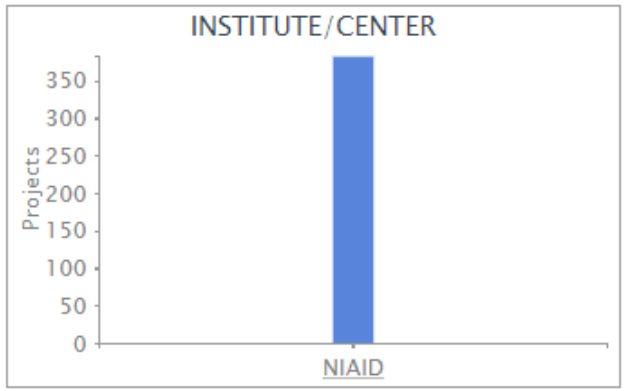
RESET RESUBMIT

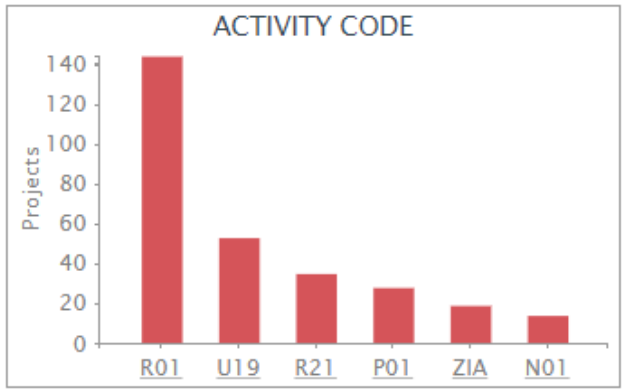
383 projects with similar concepts to the entered text. (500 maximum)

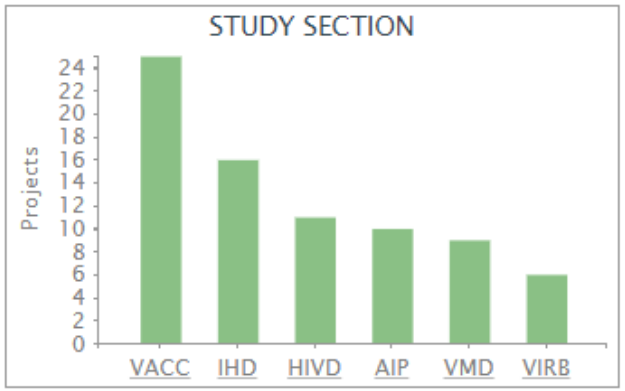
Click on chart labels to filter search results by the Institute/Center or Activity Code or Study Section

Click here to view detailed Charts

Filter: **Institute/Center:** NIAID







Click on the column header to sort the results

Records per page 25

1 2 3 4 ... 14 15 16

1 of 16 Next Last

T: Application Type; Act: Activity Code; Project: Admin IC,Serial No.; Year: Support Year/Supplement/Amendment

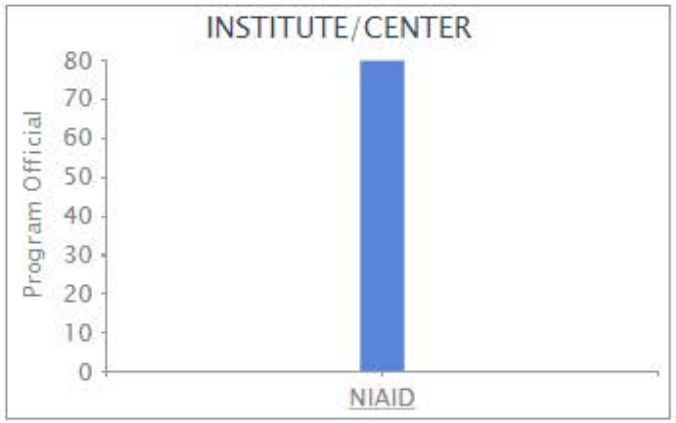
Match Score	T	Act	Project	Year	Sub #	Project Title	Contact PI / Project Leader	Organization	FY	Admin IC	Funding IC	FY Total Cost by IC	Similar Projects
966	1	ZIA	AI000883	19		INTERACTION OF HIV ENVELOPE WITH CELL SURFACE RECEPTORS	FAUCI, ANTHONY S.		2019	NIAID	NIAID	$1,069,830	

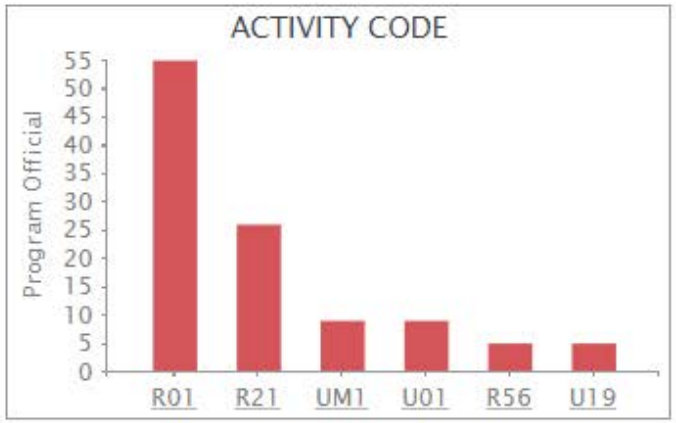
80 Program Officials from the matched projects. (500 projects maximum)

Click here to view detailed Charts

Click on chart labels to filter search results by the Institute/Center or Activity Code

Filter: **Institute/Center:** NIAID





Click on the column header to sort the results

Records per page 25

1 2 3 4

1 of 4 Next Last

Program Official	IC	Contact Information	Projects
MCDONALD, DAVID JOSEPH	NIAID	Click to view PO email address	17
MALASPINA, ANGELA	NIAID	Click to view PO email address	17
LAWRENCE, DIANE M	NIAID	Click to view PO email address	11
BEISEL, CHRISTOPHER E	NIAID	Click to view PO email address	10
TURPIN, JIM A	NIAID	Click to view PO email address	10
SINGH, ANJALI	NIAID	Click to view PO email address	9
WARREN, JON T	NIAID	Click to view PO email address	9
NOVAK, LEIA KAYE	NIAID	Click to view PO email address	8
ROTHERMEL, ANNETTE L	NIAID	Click to view PO email address	8
DANG, QUE	NIAID	Click to view PO email address	7
PENSIERO, MICHAEL N	NIAID	Click to view PO email address	7
PESCE, JOHN T	NIAID	Click to view PO email address	7
JIANG, CHAO	NIAID	Click to view PO email address	7

Where do I turn when I need help or advice?

The NIH Extramural Team

Program Official (PO)

Scientific Review Officer (SRO)

Grants Management Officer (GMO)

Program Official

- Scientific portfolio of awards within the mission of an institute
- Initiative development
- Programmatic, scientific, and/or technical guidance pre- and post-award
- Recommends applications to be considered for award to the IC director
- Post-award oversight by monitoring research progress

Dr. Michael Sesma (NIGMS)
Program Official

Scientific Review Officer

- Responsible for scientific and technical review
  - Ensures fair and unbiased evaluation of scientific and technical merit
  - Provides a summary of the evaluation
  - Reviews applications for completeness and conformance with application requirements
- Point of contact for applicants during the review process

Dr. Alexander Politis (CSR)
Scientific Review Officer

Grants Management Officer

- Responsible for completion of business management requirements
  - Evaluates applications for administrative content and compliance with policy
  - Negotiates Awards
  - Interprets grants administration policies

Dede Rutberg (NIDCR)
Grants Management Officer

When in doubt, reach out!

What opportunities are available & how can I find them?

Funding Opportunity Announcements (FOAs)

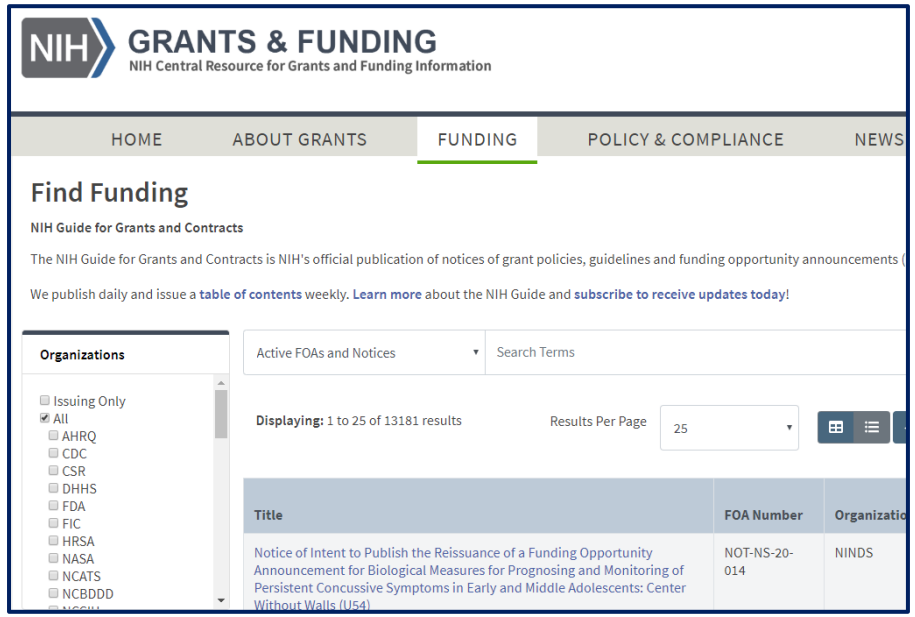
- Used to advertise grant opportunities
- Contain information for successful application

FOAs Include

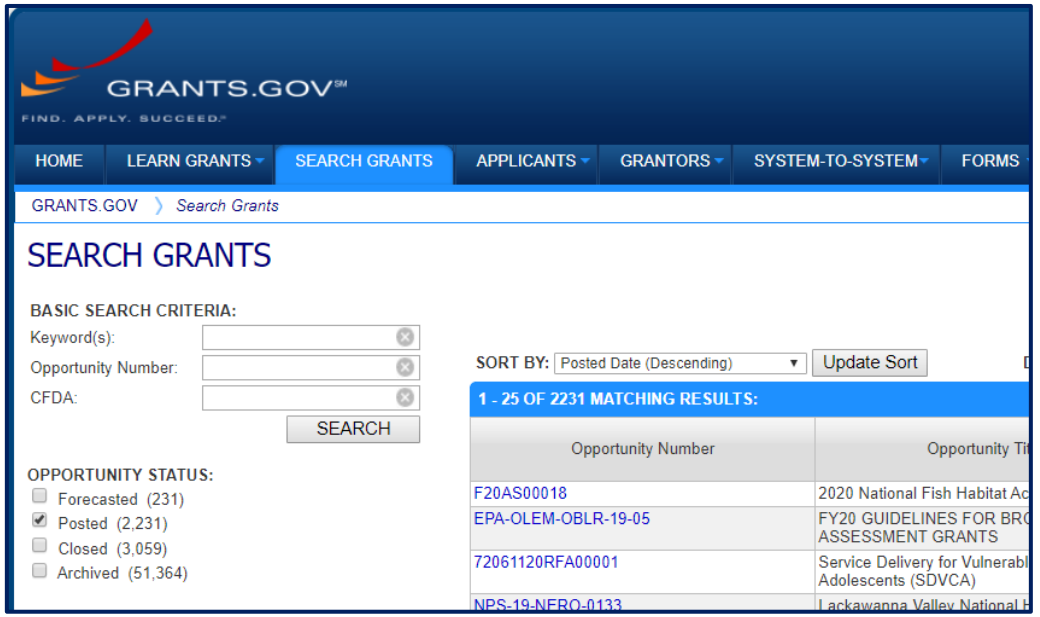
- Opportunity description
- Participating ICs
- Due dates
- Award information
- Eligibility
- Submission requirements
- Review criteria
- Award administration
- Agency points-of-contact

Find Opportunity of Interest

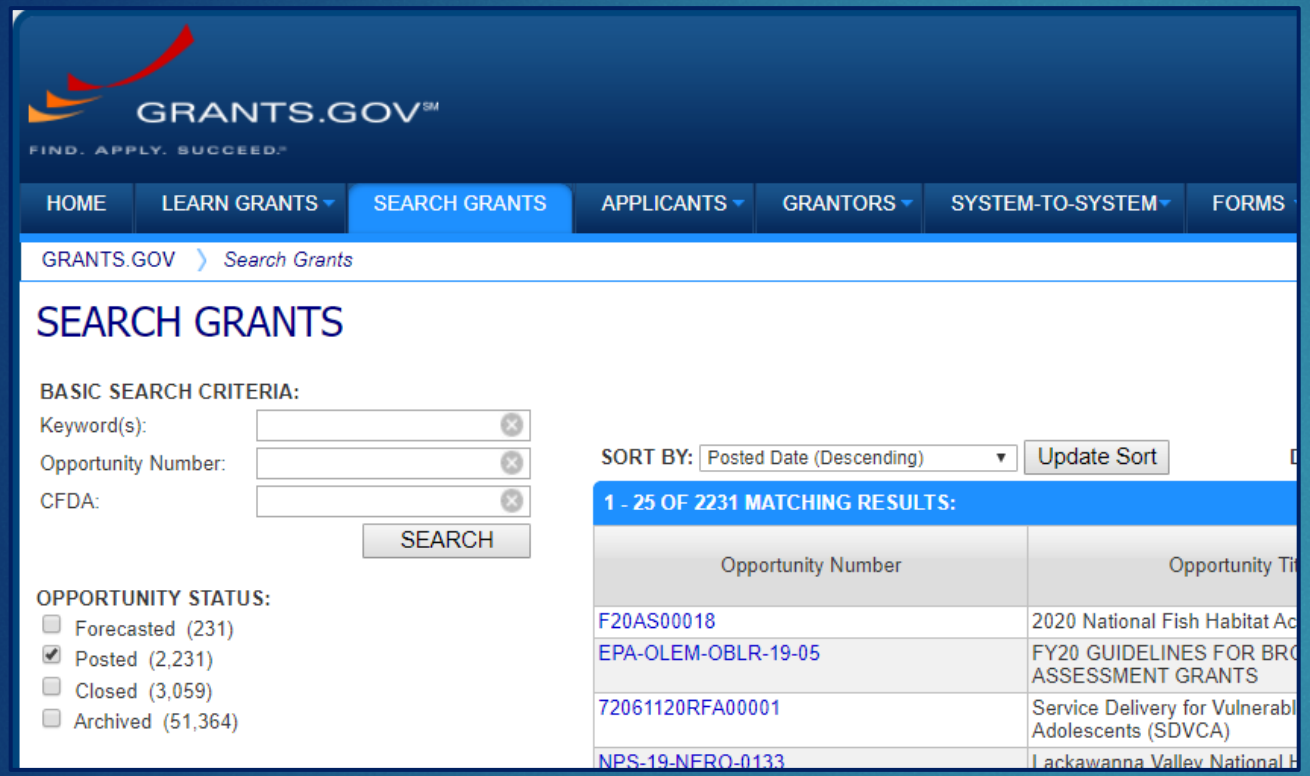
- NIH Guide to Grants & Contracts



- Grants.gov

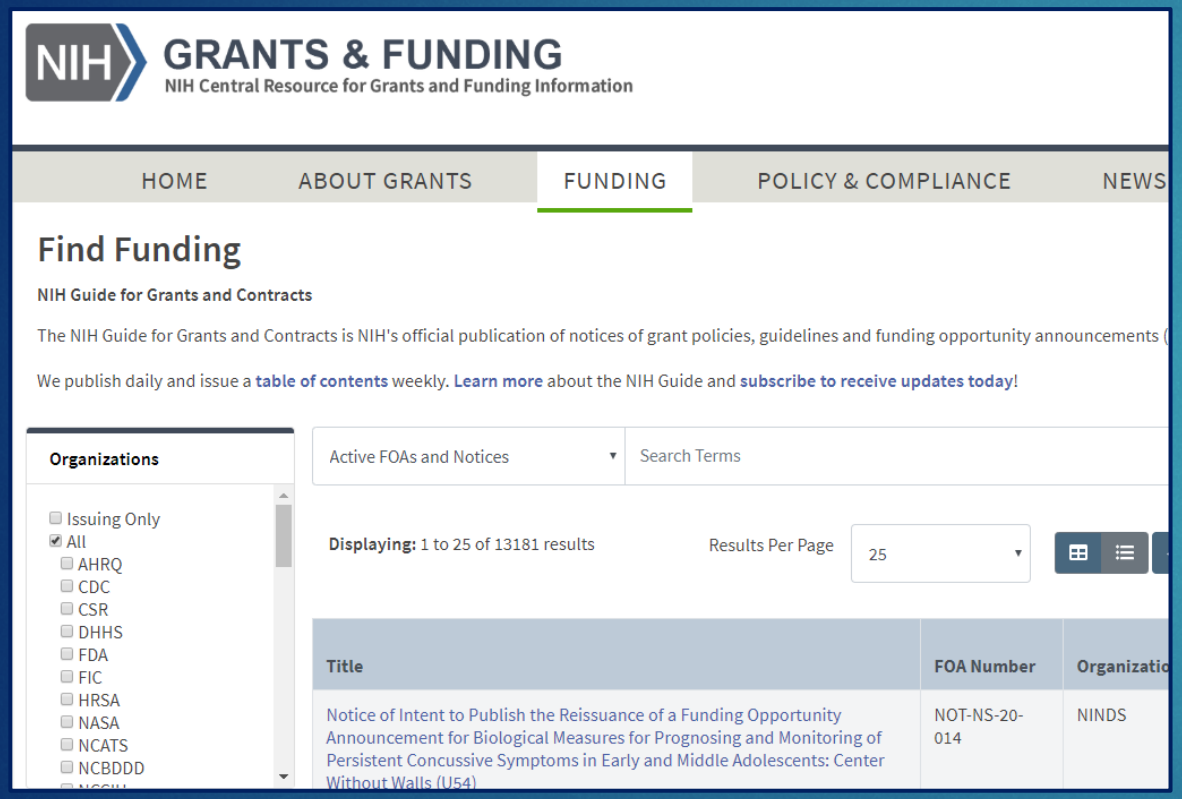


Grants.gov



- FOAs for all federal grant-making agencies

NIH Guide



- FOAs
- Notices
  - Notices of special interest
  - Policy updates
  - Changes to FOAs
  - Webinars and training events

NIH Funding Opportunities

- FOA Types
  - Requests for Applications (RFAs)
  - Parent Announcements
  - Program Announcements (PAs)
- Notices of Special Interest (NOSIs)

Requests for Applications (RFAs)

- Narrowly defined scope
- Set-aside funds
- Often a single receipt date

Parent Announcements

- Many NIH institutes and centers participate
- No science specified
- For “investigator initiated” or “unsolicited” research
- Use standard due dates

Program Announcement (PA)

- Highlights areas of focus
- Usually ongoing (3 yrs)
- Use standard receipt dates
- Special types
  - PAR – PA with special receipt, referral or review considerations
  - PAS – PA with set-aside funds

Notices of Special Interest (NOSIs)

- Increasingly used instead of program announcements
- Highlight areas of scientific interest
- Designate existing FOAs to use for application submission

Types of Grant Programs

- Research Grants (R series)
- Career Development Awards (K series)
- Research Training and Fellowships (T & F)
- Program Project/Center Grants (P series)
- Resource Grants (various series)

FUNDING

Find Funding: NIH Guide to Grants and Contracts

Contracts

Research Training and Career Development

Loan Repayment Programs

Extramural Diversity

NIH Funding Strategies

Types of Grant Programs

NIH uses activity codes (e.g. R01, R43, etc.) to differentiate the wide variety of research-related programs we support. NIH Institutes and Centers (ICs) may vary in the way they use activity codes; not all ICs accept applications for all types of grant programs or they apply specialized eligibility criteria. Look closely at Funding Opportunity Announcements (FOAs) to determine which ICs participate and the specifics of eligibility.

A comprehensive list of extramural grant and cooperative agreement activity codes is available, or you can search for specific codes below:

Search Activity Codes: Go (e.g. R01, P01, T, K, F, etc.) Reset

Search All Text: Go (e.g. Mentored, Training, etc.)

Select from List: Go

The following groupings represent the main types of grant funding we provide:

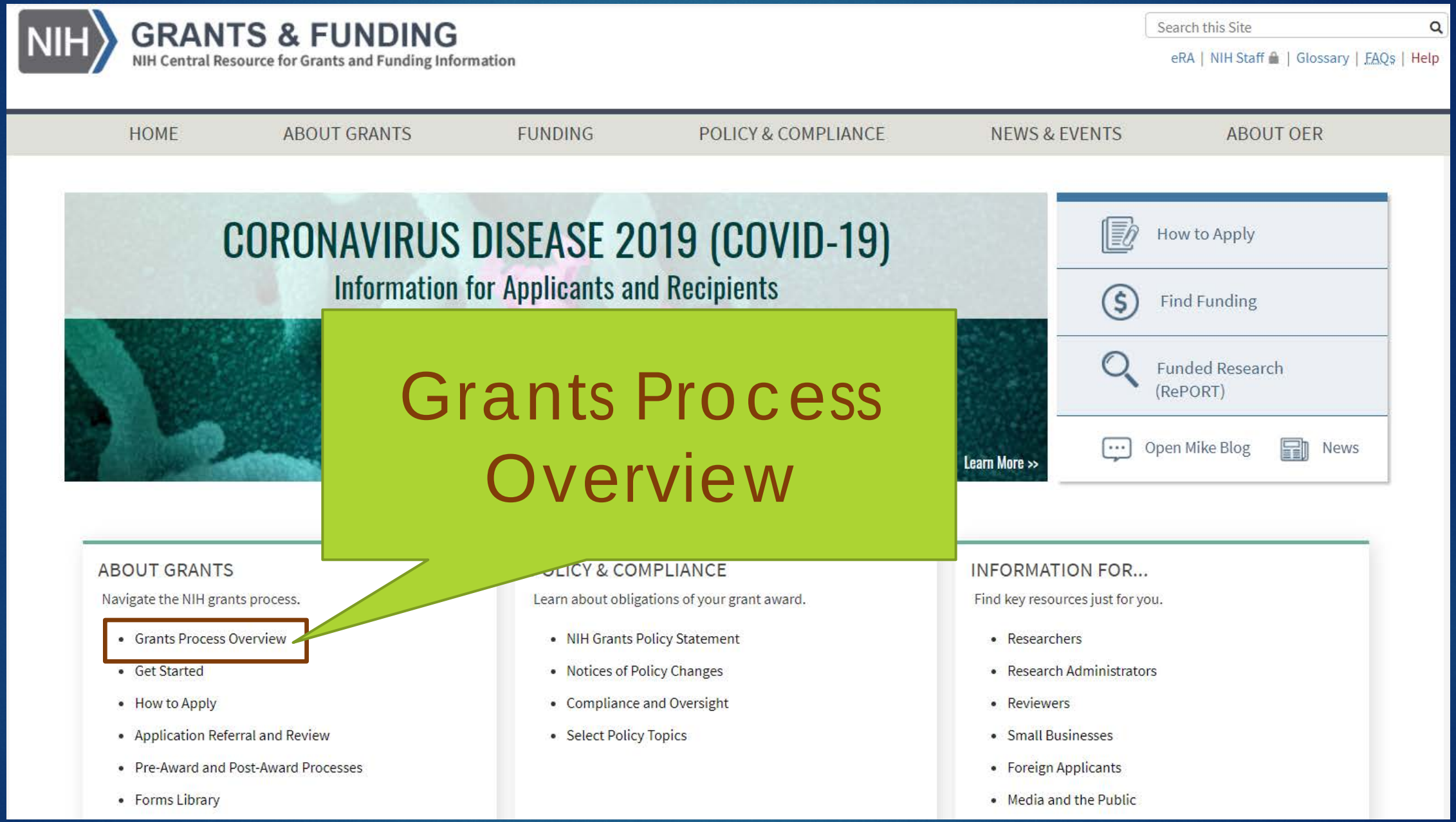
- Research Grants (R series)
- Career Development Awards (K series)
- Research Training and Fellowships (T & F series)
- Program Project/Center Grants (P series)
- Resource Grants (various series)
- Trans-NIH Programs
- Inactive Programs (Archive)

RELATED RESOURCES

Find Opportunities by Career Stage

Select your educational or career level to find a funding opportunity to support your training or career development goals.

What's the application process & how long does it take?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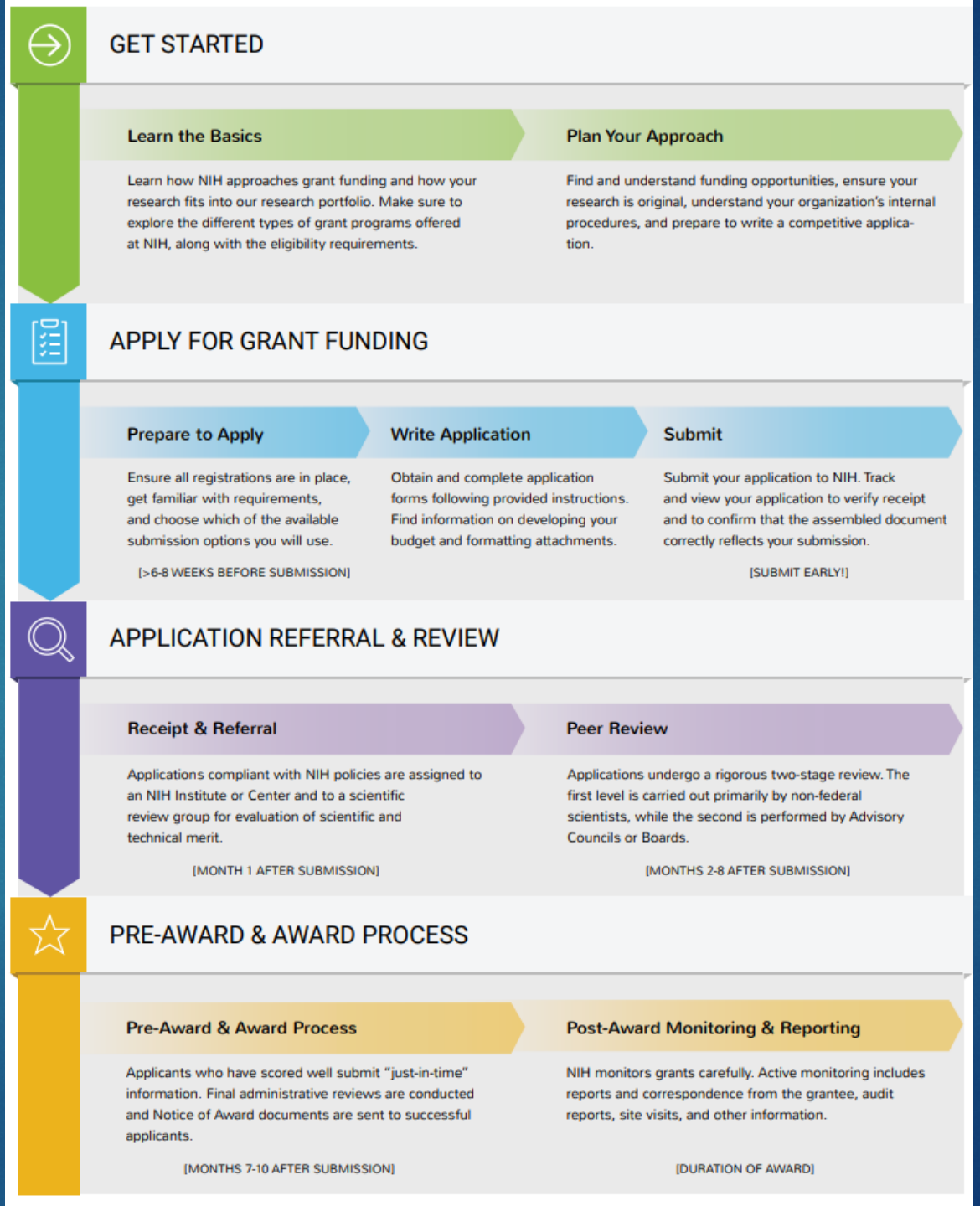
Grant Process Overview



Plan

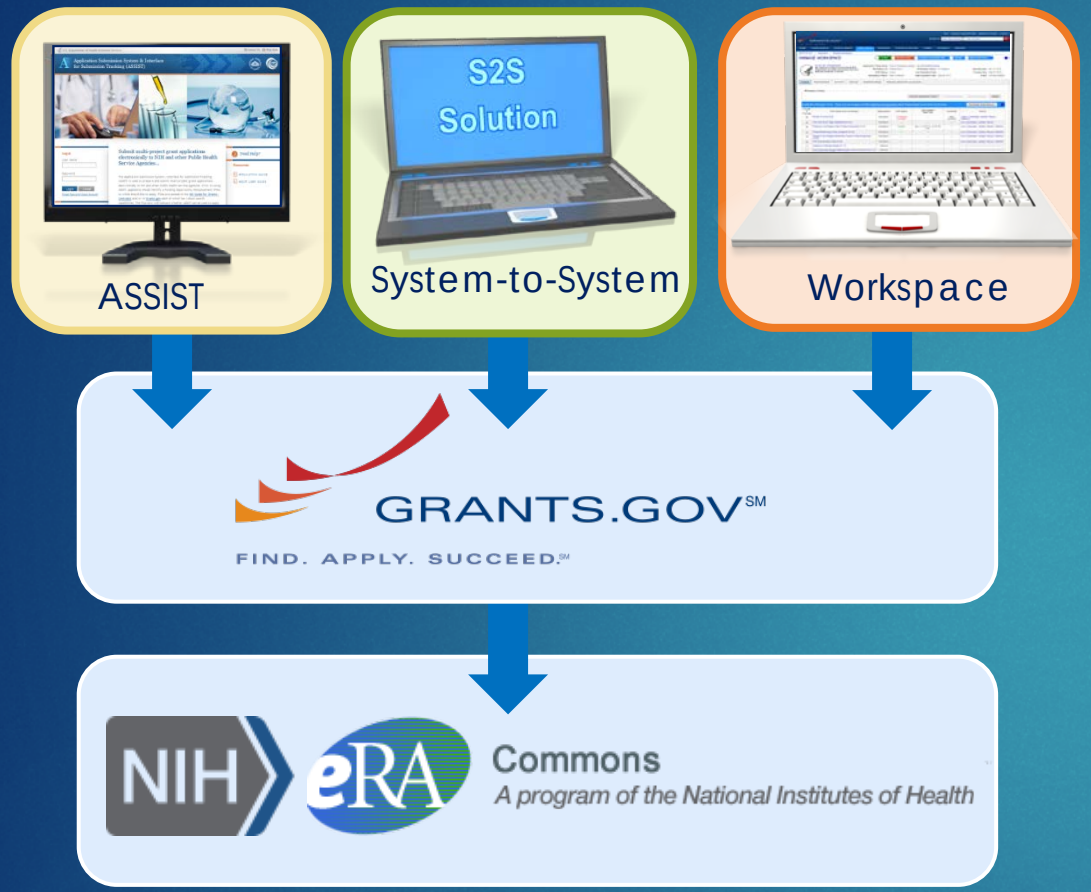
- 6+ months prior to due date
- Refine your research idea
- Reach out to NIH staff
- Build your team & internal plan

Your Team

- Members
  - Authorized Organization Official (AOR)/ Signing Official (SO)
  - Project Directors/Principal Investigators (PD/PI)
  - Others
- Discuss roles, process & timelines

Prepare to Apply

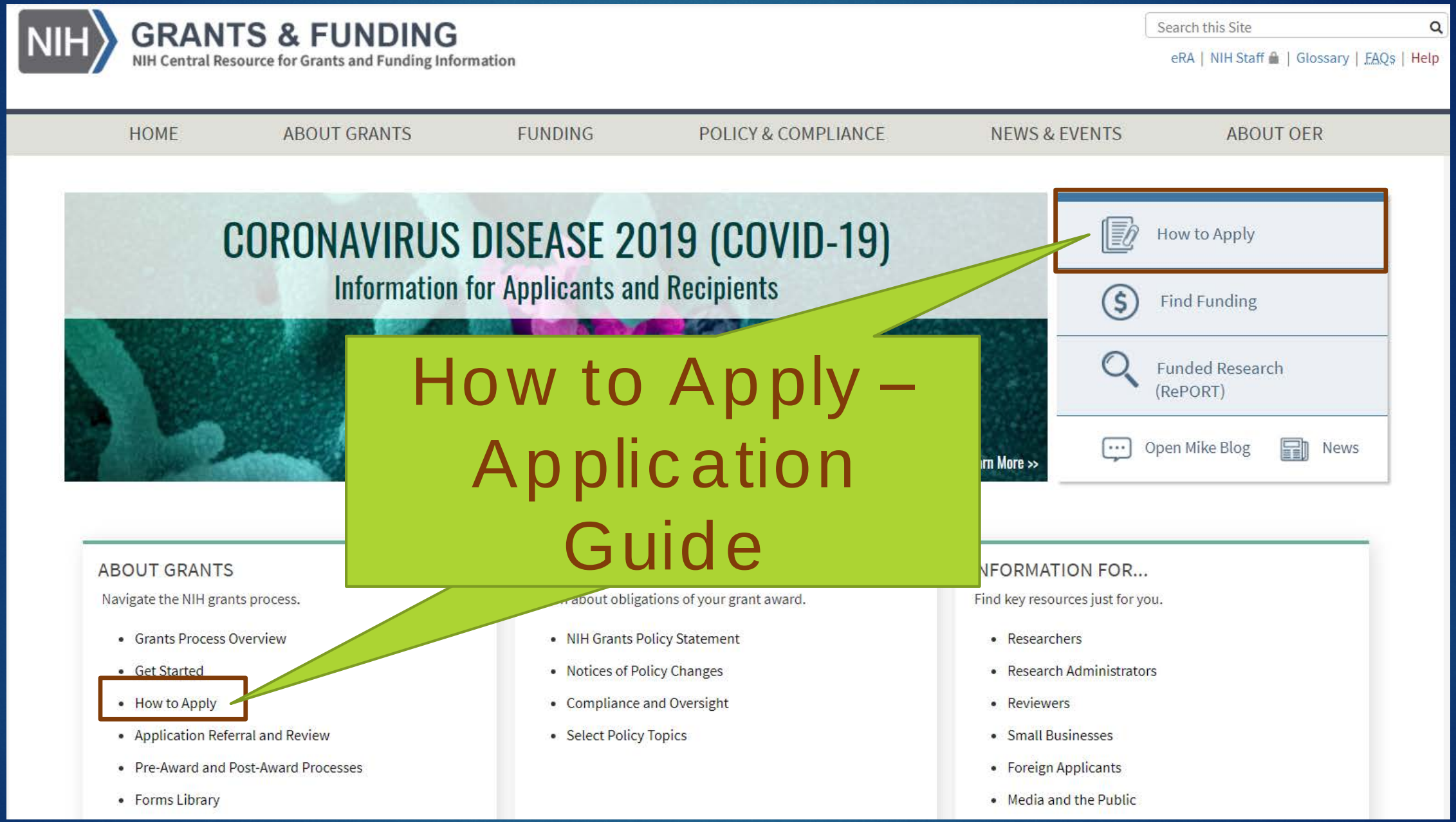
- Confirm registrations
  - 6+ weeks to complete
- Confirm funding opportunity
- Identify submission method



Access & prepare application forms using one of these submission options.

Write Application

- Complete application forms and attachments
- Write strong proposal that addresses review criteria
- Read & follow all instructions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Information for Applicants and Recipients
How to Apply
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Funded Research (RePORT)
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NFORMATION FOR...
Find key resources just for you.
Researchers
Research Administrators
Reviewers
Small Businesses
Foreign Applicants
Media and the Public

How to Apply - Application Guide

Use the application instructions found on this page along with the guidance in the funding opportunity announcement to submit grant applications to NIH, the Centers for Disease Control and Prevention, the Food and Drug Administration, and the Agency for Healthcare Research and Quality.

Prepare to Apply

- Systems and Roles
- Register
- Understand Funding Opportunities
- Types of Applications
- Submission Options
- Obtain Software

Write Application

- Write Your Application
- How to Find Forms
- Develop Your Budget
- Format Attachments
- Rules for Text Fields
- Page Limits
- Data Tables
- Reference Letters
- Biosketches

Submit

- Submit, Track, and View
- How We Check for Completeness
- Changed/Corrected Applications
- Standard Due Dates
- Submission Policies
- Dealing with System Issues

FAQs

Application Form Instructions

Need help selecting the right instructions?

Application Instructions	Description	SF424 (R&R) - Version E	SF424 (R&R) - Version F
G General Instructions	Comprehensive guidance for research, training, fellowship, career development, multi-project, and small business applications	HTML / PDF	HTML / PDF
Filtered Application Instructions			
R Research Instructions	Guidance for research only	PDF	PDF
K Career Development Instructions	Guidance for career development only	PDF	PDF
T Training Instructions	Guidance for training only	PDF	PDF
F Fellowship Instructions	Guidance for fellowship only	PDF	PDF
M Multi-Project Instructions	Guidance for multi-project only	PDF	PDF
B SBIR/STTR Instructions	Guidance for small business only	PDF	PDF

RELATED RESOURCES

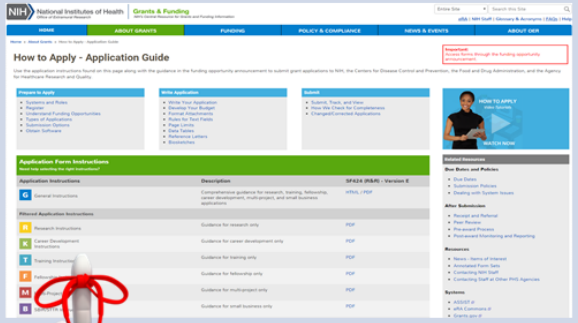
- NIH FORMS-F Application Forms Update (video, 8 min)
- Application Submission Presentations
- Tips for Success Video Series
- Annotated Form Sets
- Samples: Applications, Attachments, and other Documents
- News - Items of Interest
- Contacting NIH Staff
- Contacting Staff at Other PHS Agencies

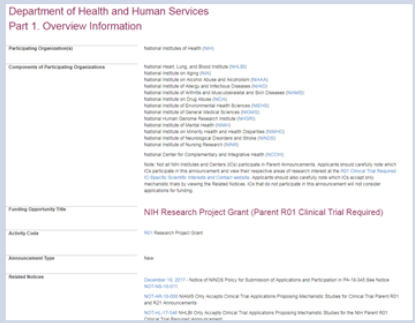
SYSTEMS

- ASSIST
- eRA Commons
- Grants.gov

Follow All Instructions Carefully

General Guidance	FOA-specific Guidance	FOA-specific & New Policy Updates
[How to Apply - Application Guide](#)	Funding Opportunity Announcement • Section IV. Application and Submission Information	Notices in NIH Guide for Grants & Contracts





Precedence / Importance

Submit Early!

- Applications routed through Grants.gov to NIH's eRA Commons
- Days before due date
  - Allow time to check application image in eRA Commons and address any unforeseen issues

Receipt & Referral

- Additional application checks
- Application Number assigned
- IC assignment
- Assignment to Integrated Review Group (IRG)
  - IRG Chief assigns study section
- Assignment details placed in eRA Commons (~2 weeks)

Peer Review

- Key contact – SRO
- Study section reviews for scientific merit
- Priority score & percentile ranking in eRA Commons (2-3 days after meeting)
- Summary statement in eRA Commons (~1 month)

Pre-Award & Award Process

- Key contacts – PO & GMO/GMS
- IC review
- Just-in-time information may be requested

Pre-Award & Award Process

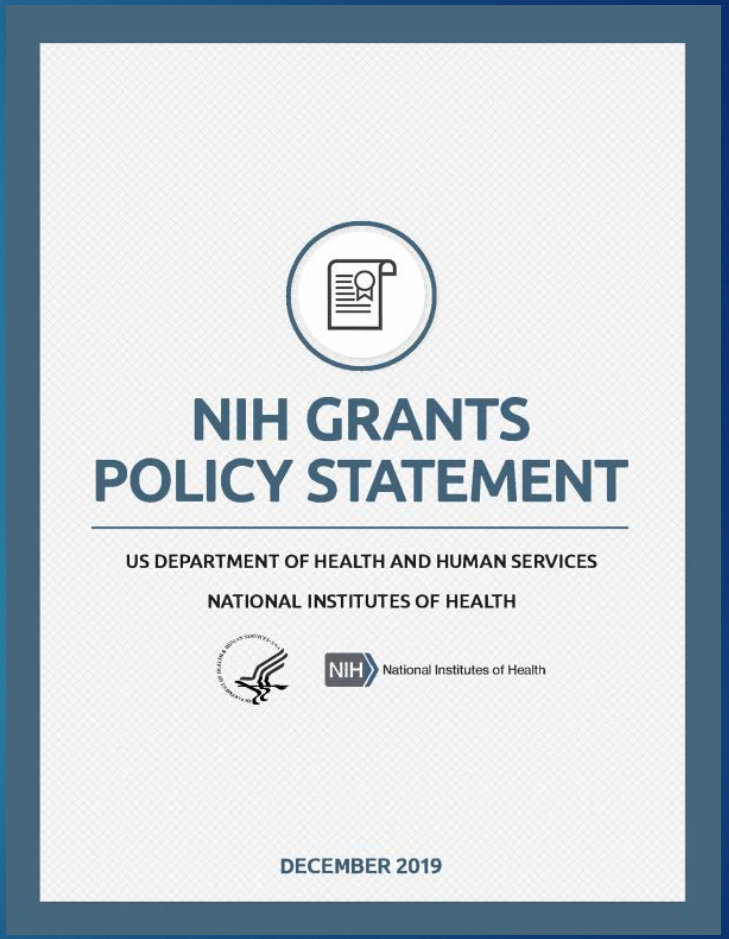
- Council – funding recommendations
- IC Director – funding decisions
- Notice of Award (~9 months)

Notice of Award (NoA)

- Legally binding document
  - Award data and fiscal information
  - Grant payment information
  - Terms and conditions of award
- Grantee accepts terms and conditions of award as soon as funds are drawn down

NIH Grants Policy Statement

- Term and condition of grant awards
- Explicitly defines roles, responsibilities
- Updated each fall



Post-Award Monitoring & Reporting

- Reports
- Prior approval requests
- Audits
- Site visits

Let’s Review

Where do I start?

- Grants.nih.gov

Where's the funding?

- Funding is done through NIH institutes/centers (ICs)
- Matchmaker in NIH RePORTER can help identify ICs with potential interest

Where do I turn when I need help or advice?

- Reach out to NIH staff
  - Program Official (PO)
  - Scientific Review Officer (SRO)
  - Grants Management Officer (GMO)
- Additional contacts
  - grants.nih.gov help page
  - FOA contact section

What opportunities are available & how can I find them?

- Funding opportunity Announcements (FOAs)
  - RFA, parent announcements, PAs, NOSIs
  - Research, career development, training, fellowship, program project, resource grants
- Posted
  - NIH Guide and Grants.gov

What's the application process & how long does it take?

- Planning (6+ months)
  - Refine idea, reach out, build team
- Prepare to apply
  - Registrations (6+ weeks)
  - Submission method (ASSIST, Workspace, system-to-system)

What's the application process & how long does it take?

- Write Application
  - Follow instructions, address FOA review criteria
- Submit early (days ahead)

What's the application process & how long does it take?

- Receipt & referral
  - Assignment – ~2 weeks
- Peer review
  - Priority score & percentile – ~2-3 days
  - Summary statement – ~1 month

What's the application process & how long does it take?

- Council – funding recommendations
- IC Director – final funding decisions

What's the application process & how long does it take?

- Pre-award & award
  - NoA - ~9 months
- Post-award monitoring & reporting
  - Duration of award

Stay Connected

NIH GRANTS & FUNDING
NIH Central Resource for Grants and Funding Information

Search this Site

eRA | NIH Staff | Glossary | FAQs | Help

HOME | ABOUT GRANTS | FUNDING | POLICY & COMPLIANCE | NEWS & EVENTS | ABOUT OER

Stay connected – News & Events

How to Apply

d Funding

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Mike Blog

News

ABOUT GRANTS

Navigate the NIH grants process.

- Grants Process Overview
- Get Started
- How to Apply
- Application Referral and Review
- Pre-Award and Post-Award Processes
- Forms Library

POLICY & COMPLIANCE

Learn about obligations of your grant award.

- NIH Grants Policy Statement
- Notices of Policy Changes
- Compliance and Oversight
- Select Policy Topics

INFORMATION FOR...

Find key resources just for you.

- Researchers
- Research Administrators
- Reviewers
- Small Businesses
- Foreign Applicants
- Media and the Public

Thank you!