



Northwestern Medicine[®]
Feinberg School of Medicine

Fundamentals of Funding

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Disclosures

- No conflicts of interest
- Funding:
 - Doris Duke Foundation
 - John Gray Research Fellowship
 - Robert Wood Johnson Foundation
 - Osher Foundation
 - Crohn's and Colitis Foundation
 - AHRQ
 - NIH
 - FDA
 - Emory Univ/CHOA
 - Northwestern Univ/LCH

Applying for grants

Make big plans



Make no little plans; they have no magic to stir men's blood and probably themselves will not be realized. Make big plans; aim high in hope and work, remembering that a noble, logical diagram once recorded will never die, but long after we are gone be a living thing, asserting itself with ever-growing insistency.



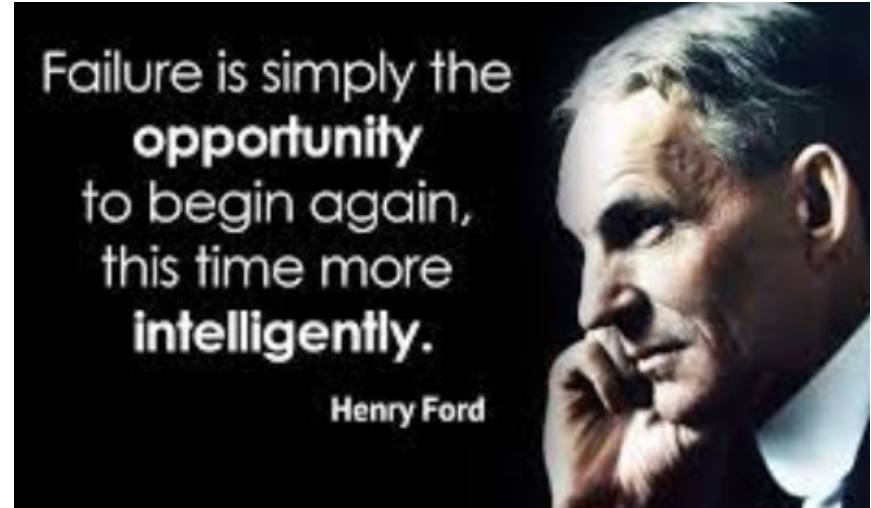
Applying for grants

Set Goals – Be Flexible – Be Creative – Don't throw ideas away (back-pocket)



Applying for grants

Prepare to fail



Applying for grants

4 reasons to do it...

1. Research is **not free** (data, supplies, time, personnel, etc.)
 - True for basic, translational, clinical/outcomes research, QI, HSR, Econ, etc.
2. Clinical margins are **no longer financing research**
 - Margins are becoming narrow, (mal)alignment of missions
3. Funded research is valuable to institutions, mostly because **prestige** but in large part to **indirects**
 - for every \$ in research funds the institution gets and additional 25-75 cents (NU 57 cents)
4. Funded research (at most academic institutions) is a **criterion for promotion, bonuses, etc.**

Billion-dollar enterprise...

NORTHWESTERN NOW

Search this site



Coronavirus University Health Science & Tech Arts & Humanities Nation & World

Research funding hits record \$893 million Support for Northwestern's high-impact work continued growing despite COVID-19

September 09, 2021 | By Matt Golosinski



The University's wide-ranging investigations have thrived across all disciplines.



Trending

Rebecca M. Blank named next president of Northwestern

October 11, 2021 – [University](#)

One coronavirus vaccine may protect against other coronaviruses

October 15, 2021 – [Coronavirus](#)

'Kids thrive on consistency.' Get your kids ages 5-11 vaccinated once approved, experts say

October 19, 2021 – [Coronavirus](#)

“ I am honored and delighted to accept the job as Northwestern's next president. Northwestern is a school that I have known and admired for years. Its reputation as a top-rated educational and **research** institution has grown each decade. It will be my mission to make sure the institution's reputation and quality continues to accelerate.”

Rebecca M. Blank
President-elect



 Lurie Children's
2020 Annual Report

Consolidated Financial Summary

For the periods ending August 31, (\$ in millions)

Statement of Operations	2020	2019
Patient Care Revenues, Net	\$ 1,090.3	\$ 1,103.2
Grants, Gifts and Endowment Income	\$ 121.3	\$ 111.5
Other Revenue	\$ 117.9	\$ 68.0
Total Operating Revenue	\$ 1,329.5	\$ 1,282.7
Salaries and Benefits	\$ 796.0	\$ 734.4
Supplies, Services, Other	\$ 427.0	\$ 398.0
Depreciation	\$ 88.2	\$ 76.7
Total Operating Expenses	\$ 1,311.2	\$ 1,209.1

Find the full report online
luriechildrens.org/annualreport

Ann & Robert H. Lurie
Children's Hospital of Chicago

225 East Chicago Avenue
Chicago, Illinois 60611

\$70m

Where do I even start?

Seems so daunting...

- Trainees
 - Internal
 - Extramural
- Faculty
 - Internal
 - External
 - Societies
 - Foundations
 - NIH/AHRQ/CDC/FDA/etc

Funding Opportunities

Trainees

- Internal
 - Individual P.I. funds (Centers, Division Heads, Dept Chairs, etc.)
 - Northwestern-based training grants
 - open to folks outside of NU but (I think) preference is given to NU/Lurie trainees
 - Dept of Surgery

Department of Surgery Training Grants

Division	Training Grant Title	Program Director	Sponsoring NIH Institute
<u>Vascular Surgery</u>	<u>Vascular Surgery Scientist Training Program</u>	<u>Mark Eskandari, MD</u>	National Heart, Lung, and Blood Institute (NHLBI)
<u>Transplant Surgery</u>	<u>Transplant Surgery Scientist Training Program</u>	<u>Richard Green, MD and Daniela Ladner, MD</u>	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
<u>Surgical Oncology</u>	Collaborative Northwestern Surgical Oncology Research Training (CONSORT)	<u>Karl Bilimoria, MD and Seema Khan, MD</u>	National Cancer Institute (NCI)
<u>Robert H. Lurie Comprehensive Cancer Center</u>	<u>Northwestern University Training Programs</u>		

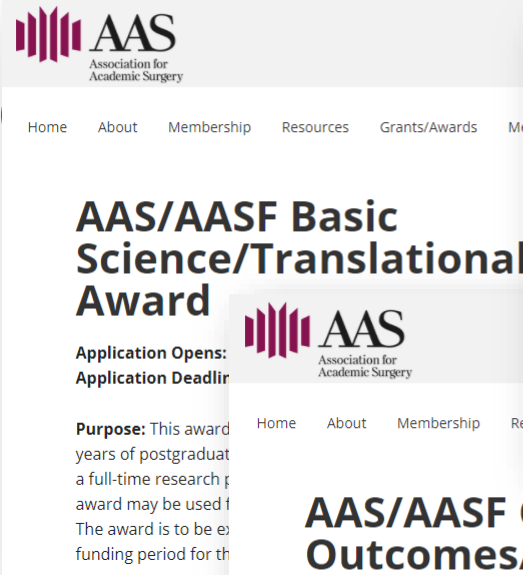
Funding Opportunities

Trainees

- Internal
 - Outside of Dept of Surgery
 - **T37** Northwestern University **Minority Health and Health Disparities** Research Training Program (NU-MHRT)
 - Multidisciplinary Training Program in Child and Adolescent Health (**TL1**) is an NCATS-funded training program that seeks to promote interactions among both mentors and trainees in **pediatrics and engineering** to encourage creative thinking and new approaches in child-health research.
 - The **Chicago KUH Forward** (**Chicago Kidney Urology Hematology network** FOR city-Wide research training and career Development) is a unique NIDDK-funded interdisciplinary training program for pre- and post- doctoral trainees interested in interdisciplinary research training in nephrology, benign urology and benign hematology, spread across 6 academic institutions in Chicago (including NU)

Funding Trainees

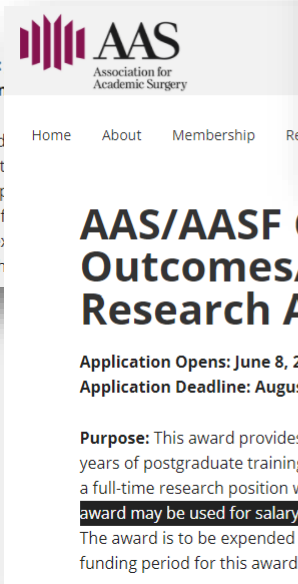
- External
 - Societies
 - AAS
 - ACS
 - SUS
 - Others
 - NIH
 - F32



AAS/AASF Basic Science/Translational Award

Application Opens: [redacted]
Application Deadline: [redacted]

Purpose: This award provides an eligible resident or fellow who has completed [redacted] years of postgraduate training in a surgical discipline the opportunity to spend [redacted] a full-time research position with an AAS member. The award of \$30,000 for one [redacted] award may be used for salary support or for the direct-cost expenditures of the [redacted]. The award is to be expended solely for the purpose of the sponsored research. The funding period for this award begins July 1st, 2022.



AAS/AASF Clinical Outcomes/Health Services Research Award

Application Opens: June 8, 2021
Application Deadline: August 2, 2021

Purpose: This award provides an eligible resident or fellow who has completed [redacted] years of postgraduate training in a surgical discipline the opportunity to spend [redacted] a full-time research position with an AAS member. The award of \$30,000 for one [redacted] award may be used for salary support or for the direct-cost expenditures of the [redacted]. The award is to be expended solely for the purpose of the sponsored research. The funding period for this award begins July 1st, 2022.



Resident Research Scholar Award

SUS RESIDENT RESEARCH SCHOLAR AWARDS

SPONSORED BY AN UNRESTRICTED EDUCATIONAL GRANT FROM THE SUS FOUNDATION



Resident Research Scholarships

ACS Resident Research Scholarships

July 1, 2022–June 30, 2024

The American College of Surgeons is offering two-year resident research scholarships. Eligibility for these scholarships is limited to the research projects of residents in surgery or a surgical specialty.

These scholarships are supported by the generosity of Fellows, Chapters, and friends of the College, to encourage residents to pursue careers in academic surgery.

What is an F32?

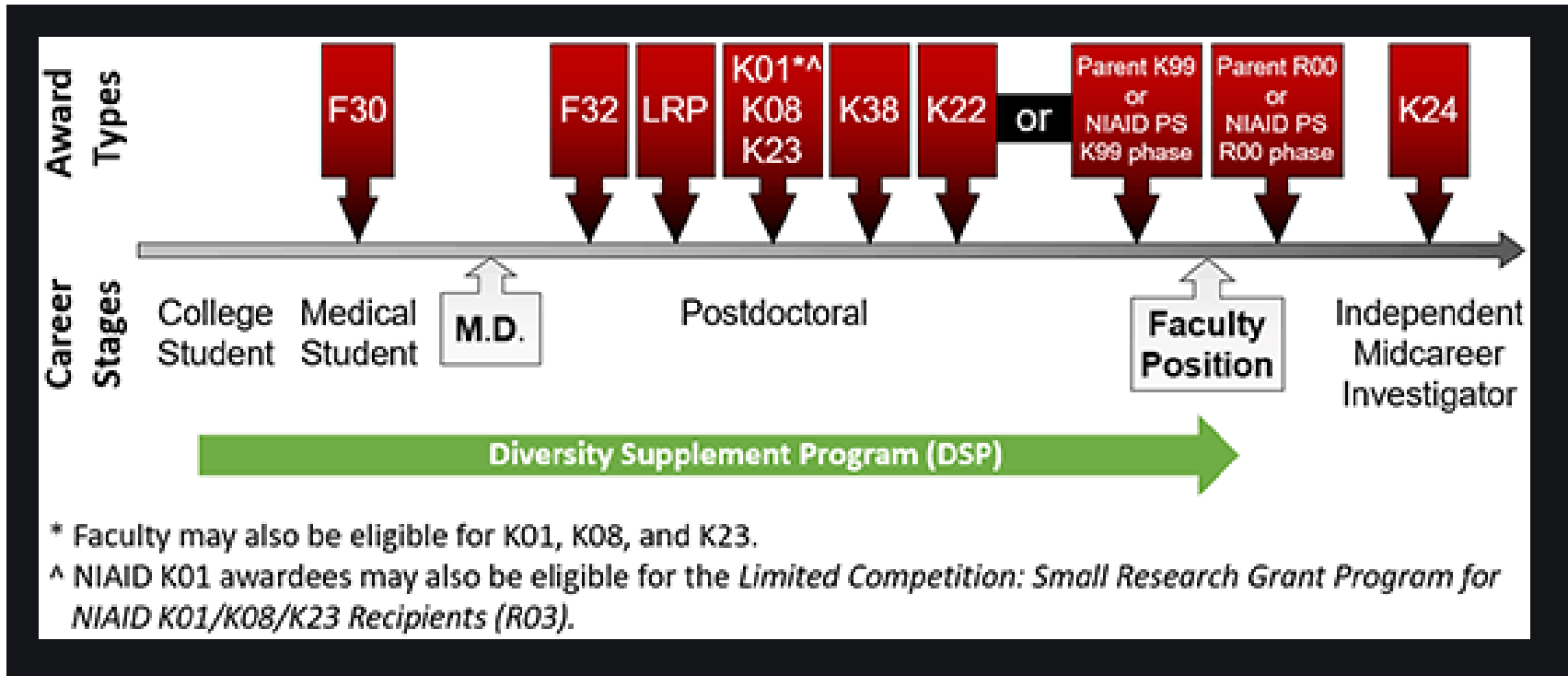
Ruth L. Kirschstein Postdoctoral Individual National Research Service Award

- **Program Purpose:**
 - The purpose of the Kirschstein-NRSA postdoctoral fellowship is to enhance the research training of promising postdoctoral candidates who have the potential to become productive, independent investigators in scientific health-related research fields relevant to the missions of the participating NIH Institutes and Centers.

What is an F32?

- National Research Service Awards (NRSA) Individual Postdoctoral Fellowship
 - Awarded by the National Institutes of Health (NIH)
 - Provide up to 3 y of support for postdoctoral researchers who have the potential to become productive, independent investigators
- Supports research training experiences in new settings in order to maximize the acquisition of new skills and knowledge
 - Must have received a MD, PhD, DVM, etc.
 - Must be a citizen or non-citizen national of the USA
 - More info here: <https://grants.nih.gov/grants/guide/pa-files/PA-21-048.html>

What is an F32?



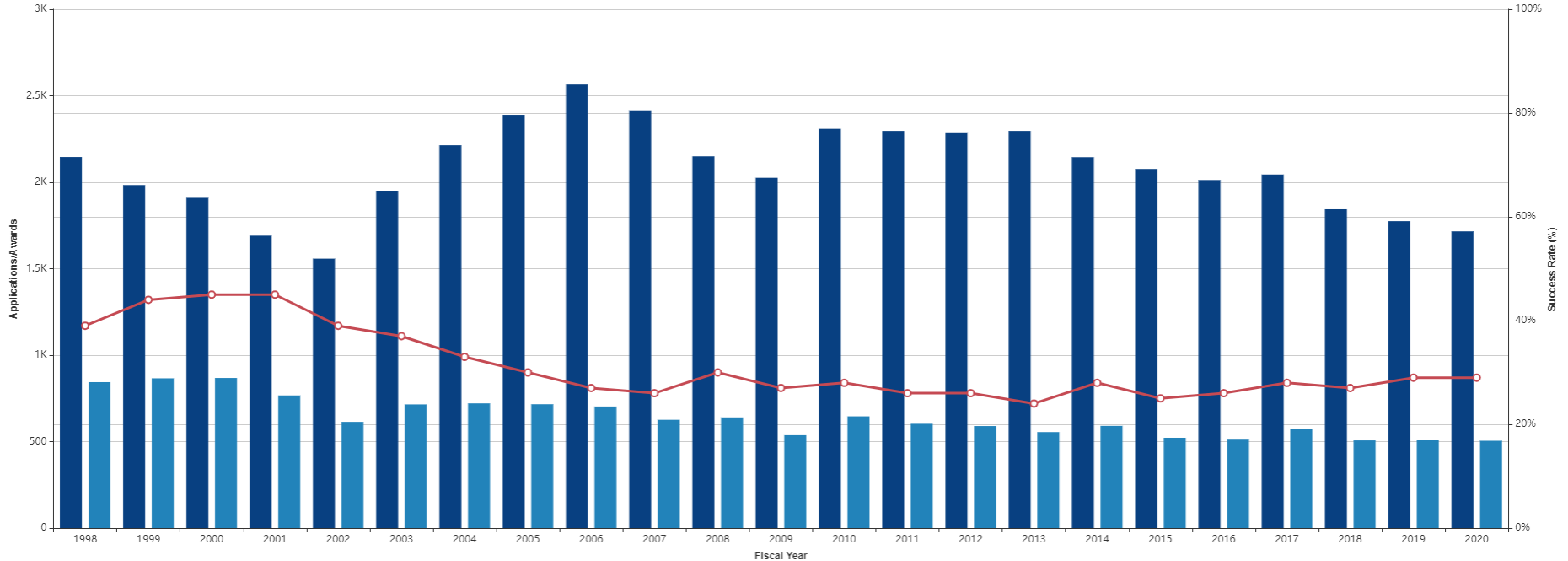
What is an F32?

Kirschstein-NRSA Post-Doctoral Fellowships (F32s): Competing Applications, Awards, and Success Rates

NIH Data Book Report ID: 62 [Share](#)

Export

■ Applications ■ Awards ● Success Rate (%)



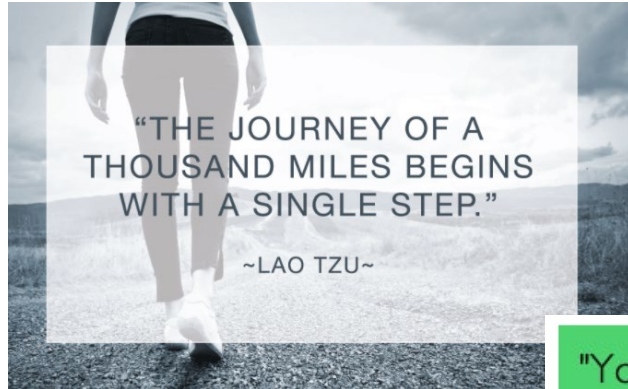
Essential first steps

- Mentor/Lab
 - Funded
 - Projects in mind
- 2-year commitment
- Ability to cover “gaps”
- Read the Program Announcement (PA)



When to start working on your F32 application

Start early!!!



When to start working on your F32 application

Start early!!! – THIS MIGHT BE THE MOST IMPORTANT SLIDE

- Plan to spend about 6 months working on an F32
- There are multiple application cycles
 - April* - gives you shot at resubmission
 - August – might give you shot at resubmission
 - December*** (last chance - notice of award (NOA) comes in Spring just prior to your July start date)
- Even if you don't have a project or a mentor you can start some things early...

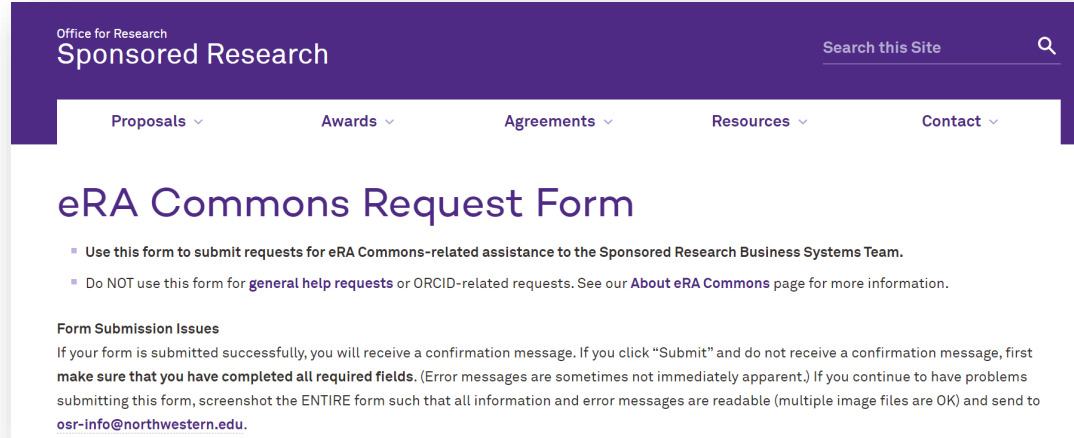
When to start working on your F32 application

Start early!!!

- Even if you don't have a project or a mentor you can start some things early...

Make an eRA commons account

- You will need an eRA Commons account to apply for an F32
- This has to be done through Northwestern – fill out the form online
 - <https://osr.northwestern.edu/helpcentral/>



Research Administrator (RA)

Your new best friend

- Once you have decided to apply for an F32 → you will be assigned a RA
 - This is someone from OSR (office for sponsored research)
- RA will send you a checklist early on of all the documents you will need to submit and their due date
 - Email them your documents as you complete them
 - They will put all the documents into the system for submission
 - They will send you a final, fully compiled PDF prior to submitting your grant for you

Mentor and Mentor Team

- Finding a mentor
 - Asking senior residents / meeting with faculty
- Mentor team
 - Diverse perspectives / backgrounds
 - Feedback

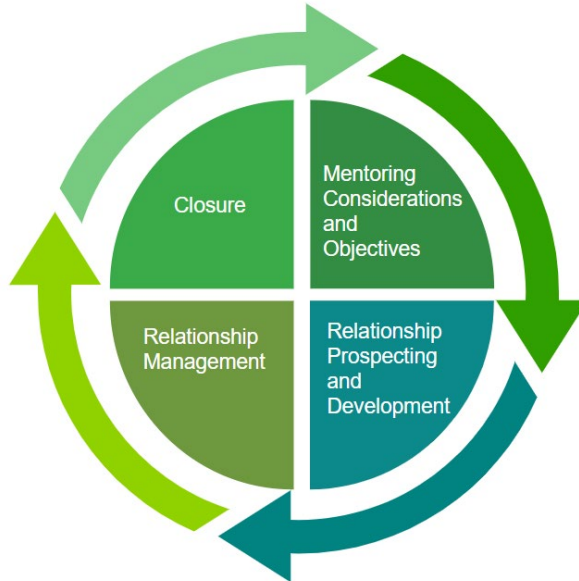
Expectations you should have of your Mentor

- Regularly scheduled meetings (weekly?)
- Checklist/Agenda for meeting
- Twice annual formal feedback sessions
 - Publications, presentations, productivity
 - Skills obtained or to be obtained
 - Career advisement
 - Global review
- Networking
- Transparency/accountability

Resources

- NIH

<https://hr.nih.gov/working-nih/mentoring/mentee>



Appendix 3

Guidelines for Annual Review of Trainees



A periodic review of a fellow's progress in the laboratory is helpful for both the trainee and the mentor to ensure that training goals will be achieved. The following list provides topics that should be discussed in annual progress reviews with the trainee. Several annual progress evaluations used by different Institutes are provided as possible template <<http://www1.od.nih.gov/oir/sourcebook/ethic-conduct/sdpolicy-mentoring.htm>>. Each Institute is encouraged to develop a written review that meets the training goals of the Lab or Branch within the Institute.

1. Productivity
2. Effort
3. Creativity
4. Reliability
5. Cooperation/Team effort within the lab
6. Research presentations, including attendance at local/national/international meetings
7. Goals for the upcoming year
8. Long term research and career goals

Resources

- Professional Societies:



HOME ABOUT JOIN GRANTS & AWARDS MEETINGS RESOU

LOG IN

The Importance of Mentorship

SEPTEMBER 3, 2019 BY [JENNIFER RICKARD, MD](#)

Finding Your Primary Mentor

NOVEMBER 2, 2015 BY [LUKE FUNK, MD MPH](#)

The development of a successful mentor/mentee relationship in the general surgery research years

OCTOBER 3, 2017 BY [EVIE CARCHMAN, MD](#) AND [BROOKS RADEMACHER, MD](#)

Feinberg School of Medicine

The Resident Research Experience: Perspectives From a Mentee and Mentor

APRIL 9, 2020 BY [NATALIE LIU, MD](#) AND [LUKE FUNK, MD MPH](#)

Fall Courses Archive

[2019 Fall Courses](#)

October 26, 2019 in San Francisco, CA

[2019 Agendas](#)

[30th Fundamentals of Surgical Research Course](#)

[15th Early Career Development Course](#)

Mentor Resources

Mentoring Toolbox

The Center for Education and Career Development's (CECD) Mentoring Toolbox provides resources to aid both mentors and mentees in reflection, setting expectations and assessment. These tools can be used individually or in tandem with one another.

NU websites

<https://www.nucats.northwestern.edu/education-and-career-development/investigator-development/mentoring/toolbox.html>

Individual Development Plan for Postdoctoral Fellows

Individual Development Plans (IDPs) provide a planning process that identifies professional development needs and career objectives. Furthermore, IDPs are incorporated into performance review processes in many organizations and are used much less frequently in the mentoring of postdoctoral fellows than considered one component of a broader mentoring program that is used by all types of research institutions.

Goals
Help individuals identify:
• Long-term career options they wish to pursue
• How to meet these, and
• Short-term needs for improving current skills

self-assessment.pdf

Trainees: _____ Date Completed: _____

1. Productivity: manuscript and grant writing.

What are your strengths with respect to this skill?	What are your weaknesses with respect to this skill?
What were your goals from the last review period for improving this skill?	Were these goals met? How did you improve? What accomplishments did you achieve?

CV

- Have an up-to-date CV
 - This is good for life in general, but you will need this to send to mentors
 - Makes it easier to write your NIH Biosketch
- Recommend you use the Northwestern faculty format
- Pro tip: update your CV in real-time
 - As you receive awards
 - When you have new publications
 - If you accept new leadership positions

NIH Biosketch

- This is based on your CV and prior experience as an investigator
- Compile your undergrad and med school transcripts in order to enter your grades
- Update your biosketch like you would update your CV
- You must use the official biosketch format found on the NIH website
 - <https://grants.nih.gov/grants/forms/biosketch.htm>

OMB No. 0925-0001 and 0925-0002 (Rev. 12/2020 Approved Through 02/28/2023)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME: _____

eRA COMMONS USER NAME (credential, e.g., agency login): _____

POSITION TITLE: _____

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY

A. Personal Statement

B. Positions, Scientific Appointments, and Honors

C. Contributions to Science

Personal Statement

- Can be started now
- Address **why** you want to do research and how it will help you reach your ultimate professional goals
 - Note pertinent background
 - Focus on the future – **how** will training grant help you get there
- Will be part of your Biosketch but you can use it for multiple grant applications

Personal Statement

Tips to Write an Outstanding Personal Statement

Recommended by Experienced Professional
Academic Writers

01

Reveal your potential strengths in the introduction

02

Take your time to prepare a draft

03

Use words and expressions that look elegant

04

Be mindful in choosing an appropriate tone to convey

05

Make your first impression good by writing a perfect opening sentence

06

Be honest, never create a false image of yours

07

Allow someone to proofread your statement and seek feedback.

Letters

2 kinds!

- **Letters of support**
 - These are from the people on your mentor panel
 - Every person on your panel has to write a letter (usually around 3-5 people on your panel)
- **Letters of reference**
 - Minimum 3, no more than 5
 - These are from people who are not directly involved in the application
 - Need to be familiar with your qualifications, training, and interests
 - Submitted directly through eRA commons, you don't send these to your research administrator (RA)

Letters

- Provide your letter writers with ammunition
 - Pers Statement
 - CV/NIH Bio
 - High level description of the scope of work/research project
- You will likely have to write some of your own letters of support/reference
 - Try to make each one different
 - Convey things you would like highlighted about yourself in your letters
 - Go back later and add information about the letter writer

Deadlines

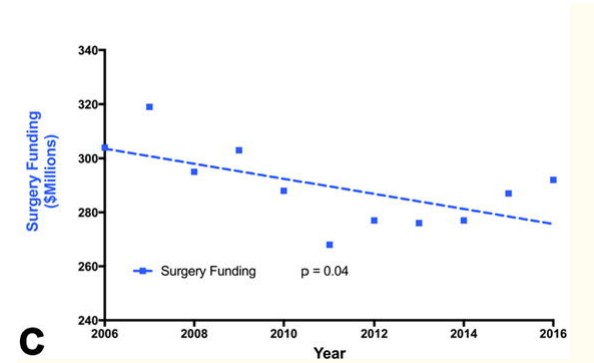
- Your RA will not always be as on top of things as you'd like
- Put all deadlines on your calendar as soon as you get your checklist
- There is an internal deadline for the OSR that is slightly earlier than the final deadline for the NIH
- Your science portion is due later than the rest of the application
 - This gives you more time to work on your specific aims, methods, references etc.



Funding Opportunities

Faculty

- Average time to a R01
 - It takes an average of 7-10 years for dedicated Surgical Investigators to get 1st R01 (success rates and timeline to R01 improved with K to R)
 - ~6-year difference in the mean age of PIs on top-scoring R21s versus top-scoring R01s. Six years is a long time to gather some more data and publish it
- Changing patterns
 - Surgery funding has decreased (recent increase)
 - TEAMS WIN: By 2015, the “average” top-scoring R01 at NIH had more than four faculty listed as participating on it

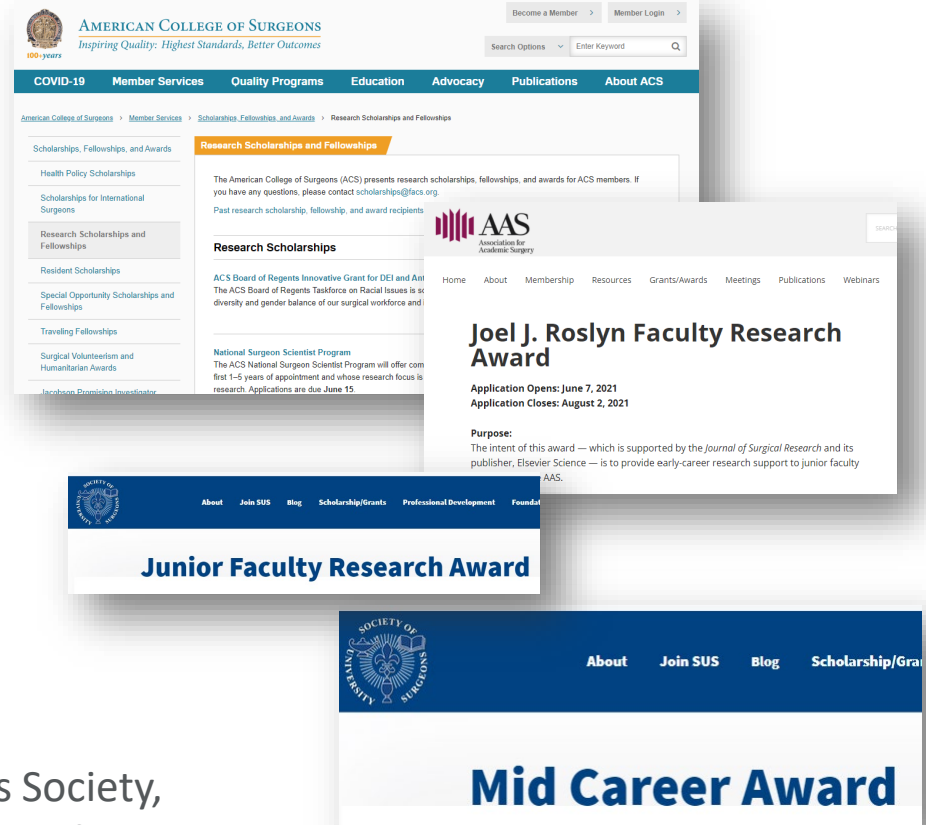


Narahari, et al. Surgeon Scientists Are Disproportionately Affected by Declining NIH Funding Rates. J Am Coll Surg. 2018 Apr; 226(4): 474–481.

Funding Opportunities

Faculty

- Surgery Societies:
 - American College of Surgeons
 - Association for Academic Surgery
 - Society of University Surgeons
 - Society for Vascular Surgery
 - American Society of Transplant Surgeons
 - Society of Surgical Oncology
 - American Pediatric Surgical Association
- **American Cancer Society**, **American Geriatrics Society**, **American Heart Association**, **American Society of Nephrology**, **American Association for the Study of Liver Diseases**, etc.



Funding Opportunities

Faculty

- **Foundations:**
 - AcademyHealth
 - Burroughs Wellcome Fund
 - Doris Duke
 - Robert Wood Johnson Foundation
 - March of Dimes
 - National Kidney Foundation
 - Bill & Melinda Gates Foundation
 - Rockefeller Foundation
 - Etc.

NIH

By the numbers

- FY2019
 - 55,012 extramural grants to 2,738 institutions → \$29.5 billion
 - Think of non-NIH but federal, extramural awards
 - Dept of Defense
 - CDC
 - AHRQ
 - PCORI

Where do I start?

- grants.nih.gov

The screenshot shows the NIH Grants & Funding website. At the top, it identifies the U.S. Department of Health & Human Services and the National Institutes of Health. The main header features the NIH logo and the text "GRANTS & FUNDING NIH Central Resource for Grants and Funding Information". A search bar is located in the top right corner, with links for eRA, NIH Staff, Glossary, FAQs, and Help. Below the header is a navigation menu with links for HOME, ABOUT GRANTS, FUNDING, POLICY & COMPLIANCE, NEWS & EVENTS, and ABOUT OER. The main content area is divided into two sections. On the left, there is a promotional banner for a "NIH Virtual Seminar on Program Funding and Grants Administration" held from Monday, November 1 to Thursday, November 4. The banner includes the text "Empowering the Research Workforce to Fuel Scientific Discovery" and "Free Registration!" with a "REGISTER TODAY!" button. The banner features an illustration of large numbers 1, 2, and 3, with various icons representing research, funding, and administration. On the right, there is a vertical menu with four items: "How to Apply" (with a document icon), "Find Funding" (with a dollar sign icon), "Funded Research (RePORT)" (with a magnifying glass icon), and "Open Mike Blog" (with a speech bubble icon) and "News" (with a newspaper icon).

Funding Opportunities

Nomenclature

Deciphering NIH Application/Grant Numbers

<u>Application Type</u>	<u>Activity Code</u>	<u>Institute Code (IC)</u>	<u>Serial Number</u>	<u>Support Year</u>	<u>Other Suffixes</u>
1	R01	CA	654321	01	A1

Application Types

1=New	Request for support of a project that has not yet been funded.
2=Renewal	Request for additional funding for a period subsequent to that provided by a current award.
3=Revision	Request for (or the award of) additional funds during a current project period to support new or additional activities that are not identified in the current award. This request reflects an expansion of the scope of the grant-approved activities. Competitive revisions require peer review. An administrative supplement is a request for (or the award of) additional funds during a current project period to provide for an increase in costs due to unforeseen circumstances. All additional costs must be within the scope of the peer reviewed and approved project.
4=Extension	Request for additional years of support beyond the years previously awarded. (Used only for select programs.)
5=Non-competing Continuation	Request or award for a subsequent budget period within a previously approved project for which a recipient does not have to compete with other applications.
6=Change of Organization Status (Successor-in-Interest)	Process whereby the rights to and obligations under an NIH grant is acquired incidental to the transfer of all of the assets of the grantee or the transfer of that part of the assets involved in the performance of the grant. May result from legislative or other legal action, such as a merger or other corporate change.
7=Change of Grantee or Training Institution	Transfer of the legal and administrative responsibility for a grant-supported project or activity from one legal entity to another before the completion date of the approved project period (competitive segment).
8=Change of Institute or Center	Change of awarding NIH institute or center for the noncompeting continuation (Type 5).
9=Change of Institute or Center	Change of awarding NIH institute or center for the renewal (Type 2).

Activity Codes: http://grants.nih.gov/grants/funding/funding_program.htm

NIH Funding Institutes

<u>Acronym</u>	<u>Full Name</u>	<u>Code</u>
FIC	John E. Fogarty International Center	TW
NCATS	National Center for Advancing Translational Sciences (NCATS)	TR
NCCIH	National Center for Complementary and Integrative Health	AT
NCI	National Cancer Institute	CA
NEI	National Eye Institute	EY
NHGRI	National Human Genome Research Institute	HG
NHLBI	National Heart, Lung, and Blood Institute	HL
NIA	National Institute on Aging	AG
NIAAA	National Institute on Alcohol Abuse and Alcoholism	AA
NIAID	National Institute of Allergy and Infectious Diseases	AI
NIAMS	National Institute of Arthritis and Musculoskeletal and Skin Diseases	AR
NIBIB	National Institute of Biomedical Imaging and Bioengineering	EB
NICHD	Eunice Kennedy Shriver National Institute of Child Health and Human Development	HD
NIDA	National Institute on Drug Abuse	DA
NIDCD	National Institute on Deafness and Other Communication Disorders	DC
NIDCR	National Institute of Dental and Craniofacial Research	DE
NIDDK	National Institute of Diabetes and Digestive and Kidney Diseases	DK
NIHES	National Institute of Environmental Health Sciences	ES
NIHMS	National Institute of General Medical Sciences	GM
NIMH	National Institute of Mental Health	MH
NIMHD	National Institute on Minority Health and Health Disparities	MD
NINDS	National Institute of Neurological Disorders and Stroke	NS
NINR	National Institute of Nursing Research	NR
NLM	National Library of Medicine	LM

Serial Number: Six-digit number assigned within an Institute/Center

Support Year: Two-digit number indicating segment or budget period of a project.

Other Suffixes: 'A' and related number identifies the amendment number (e.g. A1 = resubmission); 'S' and related number identifies the revision record and follows the grant year or the amendment designation to which additional funds have been awarded.

Funding Opportunities

K grants

- Career awards – mentored research training
- K funding lines are better (higher percent funded)
 - Increases chances of transition to successful R01
- Typically target instructors and assistant professors
 - K01 for PhD investigators
 - K08 for MD investigators – basic sci
 - K23 for MD investigators – patient oriented research
 - KL2 – NCATS-sponsored career development faculty at Northwestern

Funding Opportunities

R grants

- R stands for research – typically independent research awards
- Small Rs
 - R03
 - R21
- R01
 - Holy grail
 - Biggest funding ~\$500k/yr x 5 yrs
 - Competitive renewal
 - Scope – any topic

Funding Opportunities

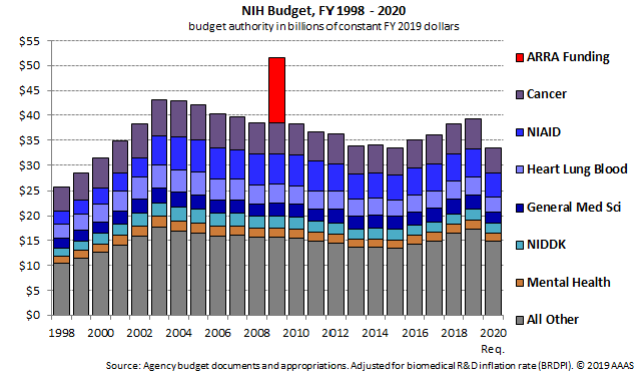
Other grants

- K25 – mentored quantitative research career development
- K99R00 – pathway to independence
- R13 – small conf grant
- U01 – cooperation with NIH institute directly
- P01 – program project – multiple R01s bundled together
- Many others...

Funding Opportunities

Strategy

1. Look at different institutes:
 - NCI, NHLBI, NIDDK, NICHD
 - Each have areas of focus
2. Look at FOAs (Funding Opportunity Announcements), RFAs (requests for applications), PA/PAR (Program Announcements)
3. Consider study sections (scientific review)
4. Put together an Aims page
 - Shop it around locally
 - Send it to the scientific program officer for fit/feedback
5. Start working on your application
 - Due dates
 - Local OSR/OSP contacts



Funding Opportunities Strategy



Research & Funding | Health Information | News | About NIDDK

NIDDK conducts and supports research on many of the most common, costly, and chronic conditions to improve health.

[Learn more >](#)

Health Topics

- Diabetes >
- Digestive Diseases >
- Kidney Disease >
- Weight Management >
- Liver Disease >
- Urologic Diseases >
- Endocrine Diseases >



Research & Funding | Health Information | News | About NIDDK

Home \ Research and Funding

Research and Funding

NIDDK conducts and supports innovative and pivotal basic, clinical, and translational research with a focus on fostering research training and mentoring opportunities to create new knowledge and improve health.

- Current Funding Opportunities**

Open Funding Opportunity Announcements (FOAs) including RFAs and PAs with NIDDK contacts.
- Research Programs & Contacts**

Learn about research goals and speak to someone about opportunities in your research area. NIDDK research funding programs and centers are organized by disease area.
- Research at NIDDK**
 - Laboratories & Branches
 - Training & Employment
 - Faculty
 - Intramural Research
- Human Subjects Research**

NIDDK provides funding for pivotal clinical research, from preliminary clinical feasibility to large multi-center clinical trials.

 - Apply
 - Award Funding Policy
- Research Training Career Development**
 - Eligibility by Career Level
 - Training Program Staff

Department of Health and Human Services

Part 1. Overview Information

Participating Organization(s)	National Institutes of Health (NIH)
Components of Participating Organizations	<p>NATIONAL INSTITUTES OF HEALTH (NIH)</p> <p>National Eye Institute (NEI)</p> <p>National Heart, Lung, and Blood Institute (NHLBI)</p> <p>National Human Genome Research Institute (NHGRI)</p> <p>National Institute on Aging (NIA)</p> <p>National Institute on Alcohol Abuse and Alcoholism (NIAAA)</p> <p>National Institute of Allergy and Infectious Diseases (NIAID)</p> <p>National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)</p> <p>National Institute of Biomedical Imaging and Bioengineering (NIBIB)</p> <p>Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)</p> <p>National Institute on Deafness and Other Communication Disorders (NIDCD)</p> <p>National Institute of Dental and Craniofacial Research (NIDCR)</p> <p>National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)</p> <p>National Institute on Drug Abuse (NIDA)</p> <p>National Institute of Environmental Health Sciences (NIEHS)</p> <p>National Institute of General Medical Sciences (NIGMS)</p> <p>National Institute of Mental Health (NIMH)</p> <p>National Institute of Neurological Disorders and Stroke (NINDS)</p> <p>National Institute of Nursing Research (NINR)</p> <p>National Institute on Minority Health and Health Disparities (NIMHD)</p> <p>National Library of Medicine (NLM)</p> <p>National Center for Complementary and Integrative Health (NCCIH)</p> <p>Division of Program Coordination, Planning and Strategic Initiatives, Office of Research Infrastructure Programs (ORIP)</p> <p>National Cancer Institute (NCI)</p> <p>Note: Not all NIH Institutes and Centers (ICs) participate in Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest at the R01 IC-Specific Scientific Interests and Contact website. ICs that do not participate in this announcement will not consider applications for funding.</p>
Funding Opportunity Title	NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
Activity Code	R01 Research Project Grant
Announcement Type	Reissue of PA-19-056
Related Notices	<p>See Notices of Special Interest associated with this funding opportunity</p> <p>See Notices of Special Interest associated with this funding opportunity.</p> <ul style="list-style-type: none"> October 26, 2021 - Notice of NHLBI Participation in NOT-AT-21-002 "Notice of Special Interest (NOSI): Promoting Research on Interoception and Its Impact on Health and Disease (R01). See Notice NOT-HL-21-037

Funding Opportunities Strategy

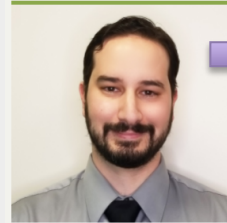
Regular Standing Study Sections and Continuing SEPs

Filter Results: [Search](#)

Study Section ^	Study Section Description	Scientific Review Officer
ACTS	Arthritis, Connective Tissue and Skin Study Section	Dr. Robert Gersch
ANIE	Acute Neural Injury and Epilepsy Study Section	Dr. Elyse Schauwecker
APDA	Adult Psychopathology and Disorders of Aging Study Section	Dr. Benjamin Shaper
ARM	Addiction Risks and Mechanisms Study Section	Dr. Kristen Prentice
ASG	Aging Systems and Geriatrics Study Section	Dr. Inese Beltins
AUD	Auditory System Study Section	Dr. Brian Scott
AVI	Atherosclerosis and Vascular Inflammation	Dr. Natalia Komissarova
BACP	Bacterial Pathogenesis Study Section	Dr. Marci Scidmore
BBHV	Basic Biology of Blood, Heart and Vasculature	Dr. Ashlee Lane
BBM	Biochemistry and Biophysics of Membranes Study Section	Dr. Nuria Assa-Munt
BDF	Biology and Development of the Eye	Dr. Thomas Beres

Home > Study Sections > DTCS > MOSS

Arthritis, Connective Tissue and Skin Study Section – ACTS



Dr. Robert Gersch
Scientific Review Officer

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The Arthritis, Connective Tissue and Skin Sciences (ACTS) Study Section reviews basic and clinical research applications dealing with the biology and diseases of joints, connective tissue, and skin.

The List of Reviewers lists all present, whether standing members or temporary, to provide the full scope of expertise present on that date. Lists are posted 30 days before the meeting and are tentative, pending any last minute changes.

Review Dates

- > [List of Reviewers on 10/26/2021](#)
- > [List of Reviewers on 06/22/2021](#)
- > [List of Reviewers on 02/23/2021](#)

Membership Panel

The membership panel is a list of chartered members only.

> [View Membership Panel](#)

Topics

- Biology of the joint and connective tissue, including synovium, capsule, extracellular matrix, microvasculature, innervation.
- Hereditary, inflammatory and degenerative diseases of joints and connective tissues. Immune cell involvement in rheumatic diseases.
- Systemic rheumatic diseases including systemic lupus erythematosus, Sjogren's syndrome, scleroderma, rheumatoid arthritis, juvenile arthritis, psoriatic, bacterial,
- Melanocyte biology, skin pigmentation and vitiligo.
- Disorders of skin and its appendages, including genetic, inflammatory, autoimmune, allergic, hyperproliferative, pre-neoplastic, blistering, and fibrotic disorders; systemic diseases with major cutaneous involvement, including psoriasis, dermatitis, ichthyosis, keloids, fibrosis, pseudoxanthoma elasticum, undifferentiated connective tissue diseases, pemphigus, and bullous diseases.
- Stem cell-based therapies for skin diseases.

Funding Opportunities Strategy

- Stay organized - checklists
- Start early - timelines

Project Title: TBD
PI: Yao Tian/Mehul Naval
Project Role: TBD
DEADLINE: 10/5/21 (Admin Shell due to OSR 9/28/21)
MECHANISM (USA): 201 CF optional: <https://grants.nih.gov/grants/guide/opa-files/21-18-795.html>
 Submit your application to your ICI institution, please help us by providing the information below at start of the project and by agreeing upon internal deadlines with your assigned Research Administrator. Thank you!

Document Type

Document Type	Owner	Deadline	Status
Single IRB approval for multi-site human subjects research	PI	ASAP	
Draft Budget	PI	ASAP	
Required Admin Shell Documents for Pre-Route	PI	ASAP	
Application	PI	ASAP	
Proposal Routing Form & Necessary Approvals	PI	ASAP	
Draft Title	PI	ASAP	
Abstract	PI	ASAP	
Budget	PI	ASAP	
Number Identification	PI	ASAP	
Letter of Intent	PI	ASAP	
Cover Letter	PI	ASAP	
PivO Assignment Request Form	PI	ASAP	

OTHER ADMINISTRATIVE SHELL DOCUMENTS (due to OSR 5 business days prior to sponsor deadline)

Document Type	Owner	Deadline	Status
Application	PI	9/28/2021	
Proposal Routing Form & Necessary Approvals	PI	9/28/2021	
Draft Title	PI	9/28/2021	
Abstract	PI	9/28/2021	
Budget	PI	9/28/2021	
Number Identification	PI	9/28/2021	
Letter of Intent	PI	9/28/2021	
Cover Letter	PI	9/28/2021	
PivO Assignment Request Form	PI	9/28/2021	

Standard Due Dates

Use this page to learn about application cycles and their relationship to due dates, review and council dates, and earliest possible start dates.

On This Page: [General Information](#) | [Application Due Dates](#) | [Review & Award Cycles](#)

General Information

- Grant applications and associated documents (e.g., reference letters) are due by 5:00 PM local time of application organization on the specified due date.
- If the FOIA says "standard dates apply", refer to the table below for due date information.
- Note that renewal/resubmission/revision applications may have different due dates than new applications. Read the table carefully.
- The ADS and ADS-related dates apply to all activity codes.
- Questions related to a specific opportunity should be directed to the IC contact listed in Section VII of the FOIA.
- R01, R02, and R04 applications with a PI/PII appointed to an NIH Peer Review Advisory group may be eligible for an alternate submission schedule. See [Continuous Submission](#) for details and review.

Application Due Dates

Search for Activity Code:

Activity Codes	Program Description	Cycle I Due Date	Cycle II Due Date	Cycle III Due Date
P Series All - new, renewal, resubmission, revisions	Program Project Grants and Center Grants NOTE: Applicants should check with the relevant Institute or Center (IC), since some do not accept P series applications for all three receipt/review/award cycles.			
R18, U18 All - new, renewal, resubmission, revision	Research Demonstration Education Projects	January 25	May 25	September 25
T Series D Series All - new, renewal, resubmission, revision	Institutional National Research Service Awards Other Training Grants NOTE: Applicants should check with the relevant Institute or Center (IC), since some do not accept T series applications for all three receipt/review/award cycles. Applicants should refer to the IC's table of contacts for information for each IC's scientific/research contact for the NRSA T11 program.	January 25	May 25	September 25

Funding Opportunities

Expect failure

- Top 50% of grants will be discussed by a scientific study section
- Score (lower = better)
- Expect resubmission
- Even if scored well – not guaranteed funding
- NOA (Notice of Award)
 - Preparing response and resubmission

Overall Impact:
The likelihood for a project to exert a sustained, powerful influence on research field(s) involved

Overall Impact	High	Medium	Low
Score	1 2 3	4 5 6	7 8 9

Evaluating Overall Impact:

Consider the 5 criteria: significance, investigator, innovation, approach, environment (weighted based on reviewer's judgment) and other score influences, e.g. human subjects, animal welfare, inclusion plans, and biohazards

e.g. Applications are addressing a problem of high importance/interest in the field. May have some or no weaknesses.

e.g. Applications may be addressing a problem of high importance in the field, but weaknesses in the criteria bring down the overall impact to medium.

e.g. Applications may be addressing a problem of moderate importance in the field, with some or no weaknesses

e.g. Applications may be addressing a problem of moderate/high importance in the field, but weaknesses in the criteria bring down the overall impact to low.

e.g. Applications may be addressing a problem of low or no importance in the field, with some or no weaknesses.

5 is a good medium-impact application, and the entire scale (1-9) should always be considered.

More details Resources

- https://grants.nih.gov/grants/grants_process.htm



Get examples of grants

Both funded and non-funded

- Talk to peers/mentors/Division Heads/etc.
- You can re-use a lot of their documents
- Most folks are willing to share



Questions

Subtitle

? ' \$

Thank You

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