Research Funding Programs

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www.rockefeller.edu/sr-pd
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Resources for Finding Funding Opportunities

- University Sponsored Research & Program Development (SR-PD)
  - Your Grants Management Specialist
  - SR-PD Website
  - SR-PD Emails
- Online resources such as Community of Science (COS)-Pivot, Funding Database, and others
- Mentor and peers

Where to Apply

- Federal
  - <u>NIH</u>
  - <u>NSF</u>
  - <u>Department of Defense</u>
  - Other agencies as funding programs are made available
- Foundations
- Industry
- Internal (via Development)

Strategic Resources

- Mentor
- Peers
- RU SR-PD
  - Forms and format
  - Training Area/Career Development Resources (e.g. K-award checklist)
  - Budget (e.g. personnel effort & costs, indirect costs)
  - Boilerplates
  - Your Grants Management Specialist
- Sponsor's website
- NIH
  - RePORT
  - Program Official
  - Award trends and success rates
  - Office of Extramural Research

Types of Funding

- Fellowships
- <u>Career Development</u> (ex. NIH K08 and K23; non-NIH)
- <u>Research Grants</u>
  - Small (ex. NIH R03)
  - Exploratory/Developmental (ex. NIH R21)
  - Individual research grants (ex. NIH R01)
  - Internal Pilot Study grants (ex. CTSA)
  - Collaborative center/program grants
  - Non-NIH sources using similar mechanisms

NIH Career Development Awards

- K08 *Mentored Clinical Scientist Research Career Development Award* supports supervised research career development experience in biomedical and behavioral research, including translational research
- K23 *Mentored Patient-Oriented Research Career Development Award* supports investigators committed to research on patient-oriented research
- K99/R00 *Pathway to Independence Award*

NIH Career Development Award Summary

	K08	K23	K12	K99/R00
Citizenship Eligibility	USA or Permanent Resident	USA or Permanent Resident	USA or Permanent Resident	Not limited to USA or Permanent Resident
Length of Project Period	Up to 5 years mentored	Up to 5 years mentored	Up to 5 years mentored	Up to 2 years mentored
Estimated Range of Annual Direct Costs	$162,000 - $303,000 (check Table of I/C requirements)	$162,000 - $303,000 (check Table of I/C requirements)	Varies (funds multiple scholars)	$90,000 - $283,000) (check Table of I/C requirements)
Minimum effort committed to research	75%	75%	75%	75%
Letters required	Mentor plus 3 -5 referees	Mentor plus 3-5 referees	None	Mentor plus 3-5 referees
Participating NIH Institutes	Most institutes	Most institutes	NCI, NEI, NIDA, NIGMS, NINDS	Most institutes

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Tips on
NIH Career Development Awards

- Requires a minimum effort of 75% on research
- Strong/experienced mentor(s) is critical
- Training plan must be clear, focused, as well as interesting and practical
- Biosketches should reflect the potential of the candidate and the qualifications of the mentor

NIH Career Development Awards Limit of Cumulative K-support

- Mentored Clinical Scientist Research Career Development Award (K08)
  - Some <u>NIH institutes limiting cumulative support</u> (6 years) on institutional/K12 & K08 grants (NHLBI, NICHD)
  - Some <u>NIH institutes</u> limit eligibility to applicants with no more than 6 years postdoc experience (NIMH)
- Mentored Patient-Oriented Research Career Development Award (K23)
  - Some <u>NIH institutes limiting cumulative support</u> (6 years) on institutional/K12 & K23 grants (NHLBI, NICHD)
  - Some <u>NIH institutes</u> limit eligibility to applicants with no more than 6 years postdoc experience (NIMH)

New NIH Application Requirements
Rigor & Transparency

Element of Rigor and Transparency	Section of Application	Criterion Score	Contribute to Overall Impact Score?
Scientific Premise	Research Strategy	Yes	Yes
Scientific Rigor	Research Strategy	Yes	Yes
Consideration of Relevant Biological Variables, such as Sex	Research Strategy	Yes	Yes
Authentication of Key Biological and/or Chemical Resources	New Attachment	N/A	No

More info on NIH Rigor and Reproducibility resource page

Other NIH New Investigator Awards

- NIH Director's New Innovator Award Program ($300K/year for 5 years)

- Small Grant Program for NIDDK K01/K08/K23 Recipients (R03) ($50K/year for 2 years)

- NIDA AIDS-Science Track Award for Research Transition (R03) ($100K/year for 2 years)

- NIDA Imaging Science Track Award for Research Transition (R03) ($150K for 1 year)

- NIDCR Small Grant Program for New Investigators (R03) ($150K over 2 years)

DOD Congressionally Directed Medical Research Program (CDMRP)

- No citizenship requirements
- Some research programs have career awards and many are open to investigators at all academic levels
- Current FY2016 funding opportunities:
  - Duchenne Muscular Dystrophy Research Program – *Career Development Award* ($275K for 2 years)
  - Neurofibromatosis Research Program – *New Investigator Award* ($450K for 3 years)
  - Prostate Cancer Research Program – *Physician Research Award* ($520K for 4 years)
  - Peer Reviewed Medical Research Program – 39 topic areas. *Discovery Award* ($200K for 18 months) – for highly innovative concepts; no preliminary data required; open to all PIs
- Full listing available at http://cdmrp.army.mil/funding/

Foundation Programs

- American Academy of Neurology Foundation – Clinician Scientist Development Awards
- American Heart Association – Scientist Development Grant
- American Society of Clinical Oncology – Young Investigator Award
- Burroughs Wellcome Fund – Career Awards for Medical Scientists
- Dermatology Foundation – Career Development Awards
- *Doris Duke Charitable Foundation – Clinical Scientist Development Award
- Komen Breast Cancer Foundation – Career Catalyst Award
- NARSAD/Brain & Behavior Research Foundation – Young Investigator Award
- Scleroderma Foundation – New Investigator Grant

For other new investigator award programs visit New PI site
*Administered by Development Office

Early Stage of Proposal Planning

- Start early, approx. 6-9 months before deadline
- Review the funding program/announcement
- Research recently funded proposals
- Find out success rate at target agency/institute
- Discuss your research/proposal with your mentor
- Contact (e.mail) the Program Official/Director – determine/confirm Institute/Center assignment
- Attend grant writing workshops at RU & national mtgs/conferences
- Secure reference letters (for K-mechanism applications)
- Register with sponsor
- Work with your Grants Management Specialist

Preparing the Proposal

- Review scope of the funding opportunity announcement
- Make note of the deadline
- Verify eligibility with your Grants Management Specialist
- Read closely the guidelines/instructions – including special submission requirements
- Design your outline and research plan according to the sponsor's instructions
- Fully address the review criteria and in the order presented by the sponsor

Questions and Suggestions