Extramurally-Funded Sponsored Projects to Enhance Diversity in the Biomedical Workforce

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Course: “Funding and Grantsmanship for Research and Career Development Activities”

http://grantscourse.columbia.edu/
Course Policies:

Please, No:

- Recording of Presentation
- Screen Shots of Presentation
- Posting to Social Media
- Sharing of Course Material with those Outside of Course

Thanks, Jaime Rubin
Topics to be Discussed

- NIH’s Interest in Diversity
- Funding Opportunities
  - For Institutions
  - For Individuals
    - NIH-Funded Programs
    - Non-Government Funding Programs
- Loan Repayment Programs
Topics to be Discussed

- **NIH’s Interest in Diversity**
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Diversity Statement

“…NIH’s ability to help ensure that the nation remains a global leader in scientific discovery and innovation is dependent upon a pool of highly talented scientists from diverse backgrounds who will help to further NIH's mission...”

“…Research shows that diverse teams working together and capitalizing on innovative ideas and distinct perspectives outperform homogenous teams. Scientists and trainees from diverse backgrounds and life experiences bring different perspectives, creativity, and individual enterprise to address complex scientific problems...”

Underrepresented Populations in the U.S. Biomedical, Clinical, Behavioral and Social Sciences Research Enterprise

A. “Individuals from racial and ethnic groups... The following racial and ethnic groups have been shown to be underrepresented in biomedical research: Blacks or African Americans, Hispanics or Latinos, American Indians or Alaska Natives, Native Hawaiians and other Pacific Islanders. In addition, it is recognized that underrepresentation can vary from setting to setting; individuals from racial or ethnic groups that can be demonstrated convincingly to be underrepresented by the grantee institution should be encouraged to participate in NIH programs to enhance diversity…”
Underrepresented Populations in the U.S. Biomedical, Clinical, Behavioral and Social Sciences Research Enterprise

B. “Individuals with disabilities…”
C. “Individuals from disadvantaged backgrounds…”
D. “…NIH encourages institutions to consider women for faculty-level, diversity-targeted programs to address faculty recruitment, appointment, retention or advancement…”

“This revised definition should better capture many scientists with a disadvantaged background, and be relatively easy to assess, ensuring we continue enhancing the diversity of the biomedical research workforce. We encourage scientists with a disadvantaged background to apply to our diversity programs. We look forward to seeing your applications!”

https://extramural-diversity.nih.gov/guidedata/data
“Students, faculty, staff and leaders from many disciplines and institutions are part of a movement to enhance diversity in the biomedical workforce. Ultimately, these efforts will help to engage a more diverse field of individuals in biomedical research careers.”
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NIH Funding Opportunities

■ Funding to Institutions
  ■ Maximizing Access to Research Careers (MARC)
  ■ Institutional Research and Academic Career Development Awards (IRACDA)
  ■ Research Training Initiative for Student Enhancement (RISE)
  ■ Initiative for Maximizing Student Development (IMSD)
  ■ Bridges to the Baccalaureate Research Training
  ■ Bridges to the Doctorate
  ■ Postbaccalaureate Research Education Program (PREP)
  ■ Innovative Programs to Enhance Research Training (IPERT)
  ■ Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Institutionally-Focused Research Education Award to Promote Diversity

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NIH Funding Opportunities

**Funding to Individuals**

- Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (Parent F31-Diversity)
- Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award (F99/K00)
- Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00)
- NIDCR: Predoctoral to Postdoctoral Transition Award for a Diverse Research Workforce (F99/K00)

NIH Funding Opportunities

Funding to Individuals

- Transition Career Development Awards to Promote Diversity (K22) – NCI, NINDS

- Career Development Awards to Promote Diversity (K01) – NIDCR, NCI, NINDS, NHLBI

- Small Grants for New Investigators to Promote Diversity in Health-Related Research [R21] (NIDDK, NHGRI)

- Research Supplements to Promote Diversity in Health-Related Research

“designed to provide support for research experiences for individuals from **diverse backgrounds** throughout the continuum from **high school to the faculty level**… must have the potential to contribute significantly to the research career development of the candidate…. Fostering diversity in the scientific research workforce is a key component of the NIH strategy to identify, develop, support and **maintain the quality of our scientific human capital**”
Research Supplements to Promote Diversity in Health-Related Research (Contacts, Submission Dates and Special Instructions)

PA-20-166

Release Date: April 20, 2020
Expiration Date: May 22, 2023

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<tr>
<th>NIH Institute or Center</th>
<th>Institute or Center Specific Information</th>
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<tr>
<td>- National Institute on Minority Health and Health Disparities (NIMHD)</td>
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<td>- National Library of Medicine (NLM)</td>
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<td>- Fogarty International Center (FIC)</td>
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<td>- National Center for Complementary and Integrative Health (NCCIH)</td>
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<td>- Division of Program Coordination, Planning and Strategic Initiatives, Sexual &amp; Gender Minority Research Office (SGMRO)</td>
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Non-Govt Funding Opportunities

- American Heart Association
  - Research Supplements to Promote Diversity in Science
- Howard Hughes Medical Institute
  - Hanna H. Gray Fellows Program (for postdoctoral researchers)
- Ford Foundation: Fellowship Programs
  - Predoctoral, Dissertation, and Postdoctoral
- Burroughs Wellcome Fund: Postdoctoral Enrichment Program
- Keystone Symposia: Underrepresented Trainee Scholarships
- Harold Amos Medical Faculty Development Program
  - “faculty from historically disadvantaged backgrounds… medicine, dentistry, or nursing” [“race, ethnicity, socioeconomic status, or other similar factors”]; Partners: AHA, ASH, ASN

Non-Govt Funding Opportunities

- **Funding to Individuals – Cancer Research**
  - American Association for Cancer Research: Travel Grants
    - Minority and Minority-Serving Institution Faculty Scholar in Cancer Research Awards
    - Minority Scholar in Cancer Research Awards
  - American Society of Hematology (ASH) - Minority Recruitment Initiative Programs
    - Minority Graduate Student Abstract Achievement Award
    - Minority Hematology Graduate Award (MHGA)
    - Minority Medical Student Award Program (MMSAP)
    - Minority Resident Hematology Award Program
    - Minority Hematology Fellow Award (MHFA)
    - Harold Amos Medical Faculty Development Program (ASH-AMFDP)
Non-Govt Funding Opportunities

- American Society for Radiation Oncology (ASTRO)
  - Minority Summer Fellowship Award for medical students

- Breast Cancer Research Foundation/American Association for Cancer Research
  - Career Development Awards to Promote Diversity and Inclusion

- Cancer Research Institute
  - Irvington Postdoctoral Fellowship to Promote Racial Diversity

- Conquer Cancer (ASCO Foundation)
  - Medical Student Rotation for Underrepresented Populations
  - Resident Travel Award for Underrepresented Populations

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Non-Govt Funding Opportunities

- Conquer Cancer (ASCO Foundation)/Breast Cancer Research Foundation
  - Career Development Award For Diversity, Inclusion And Breast Cancer Disparities
  - Young Investigator Awards for Diversity, Inclusion and Breast Cancer Disparities

- Lustgarten Foundation-AACR Career Development Awards for Pancreatic Cancer Research
  - In Honor of Ruth Bader Ginsburg: Supports the career advancement of an early-career female pancreatic cancer researcher
  - In Honor of John Lewis: Supports the career advancement of an early-career pancreatic cancer researcher from an underrepresented minority group.

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Non-Govt Funding Opportunities

- **V Foundation - Stuart Scott Memorial Cancer Research Fund**
  - Scholar grants supports “scientists from minority ethnic groups underrepresented in science”
  - Translational Grants “fund research of cancer disparities experienced by patients of minority populations”

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Timeline of Funding for Junior Investigators

Graduate School

- Individual Fellowship Training Grant
- Mentor’s Research Grant

Post-doctoral Years

- Individual Post-doc Fellowship or Institutional T32 Post-doc Training Grant slot

Instructor/Assistant Professor

- Career Transition Awards
- Individual Mentored K Career Development Award
- NIH Loan Repayment Program

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Timeline of Funding for Junior Investigators

- Medical School
  - Short term Training
- Internship/Residency
  - Research Support
- Fellowship – Research Years
  - Individual Post-doc Fellowship or Institutional T32 Post-doc Training Grant slot
- Instructor/Assistant Professor
  - Institutional K12 Career Development Slot

Career Transition Awards
- NIH Loan Repayment Program

Year-long Enhancement Programs
- MD/PhD Fellowship or Institutional T32

Individual Mentored K Career Development Award

NIH’s Extramural Loan Repayment Program

http://www.lrp.nih.gov/

- Up to $50,000/year towards educational loan debt
- Conduct qualified research activities for an average of at least 20 hours per week
- Qualifying educational loan debt equals or exceeds 20% of the applicant's institutional base salary

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NIH’s Extramural Loan Repayment Program

- May competitively apply for one-year renewal
- Repayments are considered taxable income and a tax payment is also made to the IRS

Eligibility:

- U.S. citizen/National/Permanent Resident
- Recipient of M.D., Ph.D., D.D.S. D.M.D., or other specified equivalent doctoral degree
NIH’s Extramural Loan Repayment Program

Extramural Programs

- Clinical Researchers from Disadvantaged Backgrounds
- Health Disparities Research
- Clinical Research
- Pediatric Research
- Contraception and Infertility Research

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# Programs Overview

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<tr>
<th>Clinical Research for Individuals from Disadvantaged Backgrounds Program (DB)</th>
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<table>
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<tr>
<th>Number of Applications</th>
<th>Number of Awards</th>
<th>Success Rate</th>
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<td>243</td>
<td>75</td>
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<tr>
<th>Mean Award</th>
<th>Mean Age of Awardees</th>
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<td>$74,073</td>
<td>36 Years</td>
<td>$5,555,474</td>
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HRSA: Bureau of Health Workforce

Apply for Loan Repayment

We offer programs that repay school loan debt.

- Nurse Corps Loan Repayment Program
- National Health Service Corps Loan Repayment Programs
- Faculty Loan Repayment Program

Apply for a Scholarship

We offer scholarships to help pay for health professions’ education.

- Nurse Corps Scholarship Program
- Native Hawaiian Health Scholarship Program
- National Health Service Corps Scholarship Program

https://bhw.hrsa.gov/funding
Apply to the Faculty Loan Repayment Program

We repay loans to those pursuing a career as a faculty member at a health professions school.

Am I eligible?

You are eligible for the Faculty Loan Repayment Program (FLRP) if

1. You come from a disadvantaged background. We base this on environmental and economic factors.
2. You have an eligible health professions degree or certificate;
3. You are a faculty member at an approved health professions institution. You must have a contract for two years or more.

https://bhw.hrsa.gov/funding/apply-loan-repayment/faculty-lrp