Research
Training

rt at nida

National Institute
on Drug Abuse

2010 Update

Loan Repayment Programs

NIDA Research Training Support

"The National Institute on Drug Abuse (NIDA) offers a strategic set of funding mechanisms to support research scientists through multiple stages of their careers. These awards encourage the best and brightest scientists to pursue research addressing the many challenges presented by drug abuse and addiction so we can better overcome them."

–Nora D. Volkow, M.D.
Director, NIDA

rt at NIDA

NIDA appreciates the importance of supporting research scientists studying drug abuse and addiction to further their careers and advance the knowledge base needed to combat these urgent public health problems.

This update to NIDA's Research Training Brochure provides the latest information on training and career development grants that aim to provide such support. Several noteworthy changes have occurred since the last printing, which are highlighted below:

- Enhancement of peer review at NIH, the implementation of which is still underway (http://enhancing-peer-review.nih.gov/).

- Changes in the research grant application forms: *all fellowships, training, and career development award mechanisms have been converted to an electronic submission format* (http://grants.nih.gov/grants/ElectronicReceipt/index.htm).

- Trans-NIH research training supported through NIH Blueprint (http://neuroscienceblueprint.nih.gov/) and NIH Common Fund (http://nihroadmap.nih.gov/) initiatives (check websites frequently for new opportunities):

    - The Clinical & Translational Science Awards program (U54) is a national consortium of institutional grants/sites that sustains and advances clinical and translational science as a distinct discipline, and provides research education and training, clinical training, career development, and opportunities for partnerships and collaborations (http://nihroadmap.nih.gov/ctsa/).

    - The NIH Director's New Innovator Awards (DP2) provide support for highly innovative new investigators who have not yet obtained an R01 grant.

This update also provides the latest contact information for NIDA Research Training staff. If you are planning on submitting a grant application, we strongly encourage you to contact NIDA staff to discuss the relevance of your research to NIDA's mission and receive assistance in putting your application together.

Visit NIDA's Research Training Web page at **www.drugabuse.gov/researchtraining** for additional information.

NIDA's Research Training Program Organization

NIDA's Research Training Program uses two major funding mechanisms:

1. **Ruth L. Kirschstein National Research Service Awards (NRSA),** including:
   - Individual predoctoral and postdoctoral fellowships (F)
   - Institutional predoctoral and postdoctoral traineeships (T)

2. **Career Development Awards (K),** including:
   - Mentored career development awards for young investigators
   - Career or salary awards for mid- or senior-level investigators

The NIDA Research Training Committee (RTC) consists of staff from all divisions and offices committed to ensuring a robust and effective research training portfolio (see list at the back of this booklet). The RTC, in collaboration with NIDA's Budget Office, makes funding recommendations for the NRSA awards and suggests policy changes on NRSA and K programs when needed.

Individual fellowship (F) applications are reviewed by study sections managed by the Center for Scientific Review at NIH; and most Career (K) and Institutional Training (T) applications are reviewed by the NIDA-K Committee, a standing study section administered by NIDA.

For general questions regarding NIDA's Research Training Programs, please contact Dr. Mimi M. Ghim, Deputy Research Training Coordinator, at ghimm@nida.nih.gov or 301.443.6071.

Research Training and Career Development

RESEARCH TRAINING	**Predoctoral**	Predoctoral Individual NRSA (F30, F31) Predoctoral Training and Education Support (T32, R25) Dissertation Grant (R36)
	Postdoctoral	Postdoctoral Training and Education Support (T32, R25) Postdoctoral Individual NRSA (F32)
CAREER	**Early**	Pathways to Independence Award (K99/R00) Mentored Research Scientist Development Award (K01) Mentored Clinical Scientist Development Award (K08) Mentored Clinical Scientist Development Program Award (K12) Mentored Patient-Oriented Research Career Development Award (K23) Mentored Quantitative Research Career Development Award (K25) A/START (R03) B/START (R03) I/START (R03) ECHEM (mechanism to be determined)
	Middle	Independent Scientist Award (K02) Research Project Grant (R01) Exploratory/Developmental Grant Award (R21) Mid-Career Investigator in Patient-Oriented Research Award (K24)
	Senior	Senior Scientist Award (K05)

Research
Training Awards

Predoctoral

Ruth L. Kirschstein National Research Service Awards for Individual M.D./Ph.D. Fellows (F30)
Provides combined medical school and predoctoral Ph.D. support for a maximum of 6 years, an annual stipend, plus funds for tuition and fees, research supplies, equipment, travel, and related items. *Receipt dates: April 8, August 8, December 8. HIV/AIDS application receipt dates: May 7, September 7, January 7.*

Ruth L. Kirschstein National Research Service Awards for Individual Predoctoral Fellows (F31)
Provides up to 5 years of support toward a research doctoral degree (Ph.D., D.Sc.), an annual stipend, plus funds for tuition and fees, research supplies, equipment, travel, and related items.
Receipt dates: April 8, August 8, December 8.
HIV/AIDS application receipt dates: May 7, September 7, January 7.

Ruth L. Kirschstein National Research Service Awards for Predoctoral Fellows to Promote Diversity in Health-Related Research (F31)
Provides up to 5 years of support toward a research doctoral degree (Ph.D., D.Sc.) or a combined professional doctoral/research degree (M.D./Ph.D.). The primary objective of this funding opportunity is to support individuals from underrepresented groups, including underrepresented racial and ethnic groups, individuals with disabilities, and individuals from disadvantaged backgrounds.
Receipt dates: April 8, August 8, December 8.
HIV/AIDS application receipt dates: May 7, September 7, January 7.

**Drug Abuse Dissertation Research:
Epidemiology, Prevention, Treatment, Services,
and/or Women and Sex/Gender Differences (R36)**
Provides up to 2 years of support for drug abuse doctoral
dissertation research in epidemiology, prevention, treatment,
services, and women and sex/gender differences—areas in which
there is a significant need for new investigators. *New application
receipt dates: February 16, June 16, October 16. Resubmission
application receipt dates: March 16, July 16, November 16. HIV/AIDS
application receipt dates: May 7, September 7, January 7.*

Postdoctoral

**Ruth L. Kirschstein National Research Service Awards
for Individual Postdoctoral Fellows (F32)**
Provides up to 3 years of support at the postdoctoral level,
with a stipend that is based on the number of years of relevant
postdoctoral experience at the time of award. Additional funds are
provided to help defray expenses for research supplies, equipment,
and travel, as well as tuition and fees. *Receipt dates: April 8,
August 8, December 8. HIV/AIDS application receipt dates: May 7,
September 7, January 7.*

*For more information, please go to
www.drugabuse.gov/researchtraining.*

Ruth L. Kirschstein National Service Award for Institutional Predoctoral and Postdoctoral Traineeships (T32)

NIDA supports predoctoral and postdoctoral students through institutional training sites across the country. Applications for these positions need to go directly to the training sites' program directors. A list of training sites and brief program descriptions are available at www.drugabuse.gov/researchtraining/trainingsites.html. *Receipt date for institutions: May 25 or September 7 for HIV/AIDS applications.*

Research Education Program for Clinical Researchers and Clinicians (R25)

NIDA supports the research education of medical/graduate students, postdoctoral fellows, medical residents, and/or independent scientists through institutional research education grants. These grants provide institutional support for clinically focused, transdisciplinary training programs in substance use/ abuse/addiction research. Eligible participants should be training for careers as clinical researchers, clinicians/service providers, or (optimally) a combination of the two. Participants are selected and appointed to the program by the grantee institution. *Receipt date for institutions (including for HIV/AIDS applications): May 25 (Note change from 3 to 1 receipt dates per year).*

Career
Development**Awards**

Early Career—Individual
New Application Receipt Dates: February 12, June 12, October 12
Renewal and Resubmission Receipt Dates: March 12, July 12, Nov. 12
HIV/AIDS Application Receipt Dates: May 7, September 7, January 7

Mentored Research Scientist Development Award (K01)
Provides support for 3 to 5 years of intensive, supervised career development in the biomedical, behavioral, or clinical sciences leading to research independence.

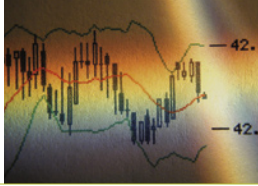**Mentored Clinical Scientist Development Award (K08)**
Provides 3 to 5 years of supervised specialized study for outstanding clinical research scientists with health professional doctoral degrees, who have the potential to develop into independent investigators and who are committed to a career in laboratory- or field-based research.

Mentored Patient-Oriented Career Development Award (K23)
Provides support for 3 to 5 years of supervised study and research for the career development of investigators with a clinical doctoral degree, or its equivalent, who have made a commitment to focus their research endeavors on patient-oriented research.

Mentored Quantitative Research Career Development Award (K25)
Provides support for 3 to 5 years of career development in clinical biomedicine, bioengineering, bioimaging, or behavioral medicine for investigators in quantitative science and engineering research who had not previously focused primarily on questions of health and disease.

NIH Pathway to Independence Award (K99/R00)

Provides up to 5 years of support consisting of two phases: 1–2 years of mentored support for highly promising, postdoctoral research scientists, followed by up to 3 years of independent support contingent on securing an independent research position. Award recipients will be expected to compete for independent R01 support from the NIH during the second phase of the award period.

NIDA Budget and Salary Guidelines

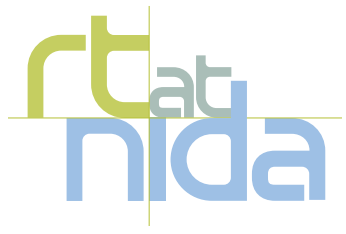NIDA's policy update for Career Development Awards contains budget and salary guidelines. For details, please go to http://grants.nih.gov/grants/guide/notice-files/NOT-DA-06-013.html.

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Early Career—Institutional
New Application Receipt Dates: February 12, June 12, October 12
Renewal and Resubmission Receipt Dates: March 12, July 12, Nov. 12
HIV/AIDS Application Receipt Dates: May 7, September 7, January 7

Mentored Clinical Scientists Development Program Award (K12)

Provides support to an educational institution or professional organization to support career development experiences for clinicians, leading to research independence. Newly trained clinicians are selected and appointed to the program by the grantee institution. Clinical research includes patient-oriented research, behavioral research, epidemiologic research, outcomes/health services research, and research with human tissues and specimens where an investigator directly interacts with human subjects in an outpatient or inpatient setting.

Middle Career

New Application Receipt Dates: February 12, June 12, October 12
Renewal and Resubmission Receipt Dates: March 12, July 12, Nov. 12
HIV/AIDS Application Receipt Dates: May 7, September 7, January 7

Independent Scientist Award (K02)

Provides support for newly independent scientists who can demonstrate the need for a period of intensive research focus to enhance their research careers and expand their potential to make significant contributions to their fields. Eligibility: doctoral degree and peer-reviewed, independent, research support at the time of award.

Mid-Career Investigator Award in Patient-Oriented Research (K24)

Provides clinical scientists support to conduct patient-oriented research and to mentor clinical investigators by relieving them of patient care and administrative responsibilities. This is a 5-year award that requires 3 to 6 person-months of effort (equivalent to 25–50 percent effort), and provides additional funds for incidental expenses.

Senior Career

New Application Receipt Dates: February 12, June 12, October 12
Renewal and Resubmission Receipt Dates: March 12, July 12, Nov. 12
HIV/AIDS Application Receipt Dates: May 7, September 7, January 7

Senior Scientist Award (K05)

Provides support to outstanding scientists who have demonstrated a sustained, high level of productivity and research accomplishments critical to NIDA's mission. This is a 5-year award to enhance the recipient's skills and dedication to his or her research area and provide time for mentorship to new investigators. Senior scientists are expected to mentor from two to five new investigators or junior faculty members each year. Eligibility: senior scientist and recognized leader in field; peer-reviewed support at time of award.

Research Supplements to Promote Reentry into Biomedical and Behavioral Research Careers
Administrative supplements to support individuals with high potential to reenter an active research career after taking time off to care for children or attend to other family responsibilities. Funding is provided to existing NIH research grants to support full-time or part-time research by these individuals in a program that brings their research skills and knowledge up to date. The program supports candidates with doctoral-level degrees and sufficient prior research experience to qualify for a doctoral-level research staff or faculty position at the time they left active research. Period of support is for a maximum of 3 years.
Receipt dates: Applications are accepted throughout the year.

Research Supplements to Promote Diversity in Health-Related Research
Administrative supplements to help increase the numbers of underrepresented scientists in biomedical and behavioral research. Funding is provided to existing NIH research grants to support underrepresented scientists who want to pursue a career in the biomedical or behavioral research sciences. The program supports individuals at the high school, undergraduate, predoctoral (graduate), postdoctoral, and investigator levels.
Receipt dates: Applications are accepted throughout the year.

NIDA Small Grants Program (R03)
Intended for newer, less experienced investigators; investigators at institutions without well-developed research traditions and resources; and more experienced investigators conducting exploratory studies that either represent a significant change in research direction or test new methods or techniques. Provides research support up to a maximum of $50,000 per year in direct costs for up to 2 years.
Receipt dates: February 16, June 16, October 16. HIV/AIDS application receipt dates: May 7, September 7, January 7.

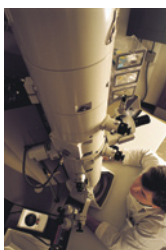### A/START—AIDS-Science Track Award for Research Transition (R03)

Facilitates the entry of newly independent and early career investigators to the area of drug abuse and HIV/AIDS research. Provides support for 2 years, with a maximum of $100,000 per year in direct costs. Investigators funded under this mechanism are expected to use their data to develop R01 grant applications on the intersection of drug abuse and HIV/AIDS. *HIV/AIDS application receipt date: September 7.*

B/START—Behavioral Science Track Award for Rapid Transition (R03)

Facilitates the entry of investigators who are 5 or fewer years past training status into the field of behavioral science research. Support is for 1 year, with a maximum of $50,000 in direct costs. *New application receipt dates: February 16, June 16, October 16. Resubmission application receipt dates: March 16, July 16, November 16. HIV/AIDS application receipt dates: May 7, September 7, January 7.*

I/START—Imaging-Science Track Award for Research Transition (R03)

Facilitates the entry of new investigators to the area of brain imaging/clinical neurobiology research, allowing for the design and collection of "proof of concept" brain imaging data for use in transitioning to more extensive research proposals. This mechanism has a 1-year maximum of $150,000 in direct costs. *New application receipt dates: February 16, June 16, October 16. Resubmission application receipt dates: March 16, July 16, November 16. HIV/AIDS application receipt dates: May 7, September 7, January 7.*

ECHEM—Early Career Award in Chemistry of Drug Abuse and Addiction (currently under revision—mechanism to be determined)

Facilitates the entry of newly independent investigators into basic chemistry research applied to drug abuse and addiction. The primary focus of the research must be on chemistry. Research on genetic, neural, or other biological processes is appropriate only if the overall emphasis is on understanding the chemical mechanisms involved. *Receipt dates: To be announced.*

Exploratory/Developmental Grant Applications (R21)

Designed to test innovative or conceptually creative, scientifically sound ideas and to enable exploration of the feasibility of the research question or approach. Data demonstrating feasibility are desirable. Novel and creative approaches are essential. Provides up to 2 years of funding and a maximum of $275,000 in direct costs (both years combined). *New application receipt dates: February 16, June 16, October 16. Renewal, resubmission, revision application receipt dates: March 16, July 16, November 16. HIV/AIDS application receipt dates: May 7, September 7, January 7.*
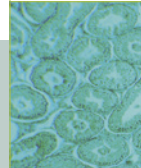
Regular Research Grant (R01)

An independent grant mechanism used for many of the research grant opportunities available at NIDA. Grantees can support mentored research training opportunities on their R01 grants. *New application receipt dates: February 5, June 5, October 5. Renewal and resubmission application receipt dates: March 5, July 5, November 5. HIV/AIDS application receipt dates: May 7, September 7, January 7.*

Diversity-promoting Institutions Drug Abuse Research Program (DIDARP) (R24)
Provides research support to institutions that historically and/or currently serve students from diverse and disadvantaged backgrounds, to increase their capacity to conduct drug abuse and addiction research and foster the research career development of faculty, students, and staff currently underrepresented in drug abuse research. This grant will support any area of drug abuse research within NIDA's mission areas, including neuroscience, epidemiology, etiology, prevention, treatment and services, medications development, HIV/AIDS, and health disparities research. *Receipt dates (including HIV/AIDS applications): July 15, December 15.*

As receipt deadlines can sometimes change, please contact a NIDA research training committee member or see grants.nih.gov/grants/funding/submissionschedule.htm to stay current.

How to Apply for a Grant
http://grants.nih.gov/grants/how_to_apply.htm

Glossary of NIH Terms
http://grants.nih.gov/grants/glossary.htm

NIH Acronym List
http://grants.nih.gov/grants/acronym_list.htm

Frequently Used Links
http://grants.nih.gov/grants/documentindex.htm

NIH NRSA Homepage
http://grants.nih.gov/training/nrsa.htm

What to Know About the Predoctoral Process
http://www.nida.nih.gov/researchtraining/predocfaqs.html

What to Know About the Postdoctoral Process
http://www.nida.nih.gov/researchtraining/postdocfaqs.html

NIDA Budget and Salary Guidelines for Career Development Awards (K Awards)
http://grants.nih.gov/grants/guide/notice-files/NOT-DA-06-013.html

Career Development Kiosk
http://grants.nih.gov/training/careerdevelopmentawards.htm

Resources for New and Early Stage Investigators
http://grants.nih.gov/grants/new_investigators/

Research
Training Committee

For more information on NRSA or K awards, please contact a committee member in your area of research interest:

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Loan Repayment
Programs

NIDA participates in the NIH Loan Repayment Programs (LRPs), a key component of our Nation's efforts to attract health professionals to careers in clinical and pediatric research within the drug abuse and addiction fields.

A productive way to pay off educational debt: In exchange for a 2-year substance abuse research commitment, NIDA will repay half of a program participant's qualified repayable educational debt (up to $35,000 each year during this 2-year period). Limited assistance to offset repayment-related increases to Federal income tax will also be provided. Participants may apply for additional 1-year contracts to repay remaining debt.
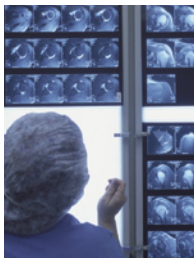
Basic qualifications: An applicant must be a citizen or permanent resident of the U.S., have a doctoral-level degree, and have educational debt equal to at least 20 percent of base salary.

Commitment of service: Program participants must conduct clinical or pediatric research in the drug abuse and addiction field for a 2-year period. The research must be funded by a domestic nonprofit or U.S. Government (Federal, State, or local) entity. A minimum of 50 percent of total effort (i.e., at least 20 hours of a 40-hour work week) is required.

Application process: The entire LRP application is on line at www.lrp.nih.gov. Please refer to the Web site for details of each LRP, eligibility requirements, current application deadline, and award schedule. The LRPs are competitive programs, with no guarantee of an award.

Additional information: For information on NIDA funding priorities, contact Dr. Ericka Boone at boonee@nida.nih.gov. For additional LRP assistance, visit www.lrp.nih.gov or call the NIH help line at 1.866.849.4047.

Applications are accepted once a year in the Fall. Please see www.lrp.nih.gov for the submission deadline.

As receipt deadlines can sometimes change, please contact a NIDA research training committee member or see **grants.nih.gov/grants/funding/ submissionschedule.htm** to stay current.

www.drugabuse.gov

www.drugabuse.gov/researchtraining

www.grants.nih.gov/grants/guide/index.html

NIDA
NATIONAL INSTITUTE
ON DRUG ABUSE

NATIONAL INSTITUTES OF HEALTH
U.S. DEPARTMENT OF HEALTH
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