Overview of NIDCR Extramural Research Training and Career Development (RTCDB) Funding Opportunities

July 6, 2023

Webinar will start at 1 PM (EDT)
Questions During the Webinar

• Please use the chat box to enter your question.

• Questions will be monitored and answered during the Q/A session.
**Disclaimer**

This webinar and accompanying slides are for informational purposes only. They serve as an overview of NIDCR extramural research training and career development funding opportunities and are not meant to be comprehensive in coverage of all required components of an application.

Applicants are responsible for following the instructions detailed in the NOFO and any Related Notices.
Presenters

• Anissa J. Brown, Chief, Research Training and Career Development Branch (RTCDB)
• Rachel Saré, RTCDB Program Officer
• Shoba Thirumangalathu, RTCDB Program Officer
• Gabe Hidalgo, Acting Chief, Grants Management Branch (GMB)
• Tom O’Farrell, Scientific Review Officer
Webinar Outline

A. Overview of NIH and NIDCR
B. Overview of the Research Training and Career Development Branch
C. Extramural Funding Opportunities
   i. Fellowship Awards
   ii. Career Development Awards
   iii. Administrative Supplements
   iv. Institutional Research Training Awards
D. Budget Overview
E. Scientific Review Overview
F. Helpful Hints and Resources
National Institutes of Health (NIH) is the largest biomedical research agency in the world

NIH seeks fundamental knowledge to enhance health, lengthen life, and reduce the burdens of illness and disability among all people.
• **Mission:** advance fundamental knowledge about dental, oral, and craniofacial (DOC) health and disease and translate these findings into prevention, early detection, and treatment strategies that improve overall health for all individuals and communities across the lifespan.

• NIDCR budget at $520.2M in FY2023 supports research, **research training**, and the dissemination of health information for improving dental, oral, and craniofacial health.
October 10 – 11, 2023

75th Anniversary Trainee Symposium: “Celebrating NIDCR Trainees: Past, Present and Future”

To register, visit [Registration - 75th Anniversary Trainee Symposium: Celebrating NIDCR Trainees: Past, Present, and Future (roseliassociates.com)]

Keynote by: Nobelist Ardem Patapoutian, PhD
Oral Health in America (OHIA) Report

• Released December 21, 2021
• NIDCR/NIH - led with extensive input from over 400 contributors
• Examined two decades of progress in oral health since the 2000 Surgeon General’s Report
• A “living document” that will help guide NIDCR and complements our new Strategic Plan
• Organized across the lifespan, characterizing challenges & opportunities, and articulating a future vision and call to action


### NIDCR Strategic Priorities

<table>
<thead>
<tr>
<th>Strategic Priority #1: Integrate Oral and General Health</th>
<th>Advance discoveries across the translational research spectrum and drive innovations that improve the early diagnosis, prevention, and treatment of DOC diseases across the life span.</th>
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<tbody>
<tr>
<td>Strategic Priority #2: Precision Dental Medicine</td>
<td>Develop more precise and individualized treatments for the management and prevention of DOC diseases.</td>
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<tr>
<td>Strategic Priority #3: Translate and Implement</td>
<td>Accelerate the translation of research and the implementation of new discoveries into oral and general healthcare practices that reduce health inequities and disparities and improve oral health outcomes for individuals and communities worldwide.</td>
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<tr>
<td>Strategic Priority #4: Diverse Research Pipeline</td>
<td>Nurture future generations of DOC researchers and oral health professional scholars who can address public health needs within a continually evolving landscape of science and technology advances</td>
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<tr>
<td>Strategic Priority #5: Partner and Collaborate</td>
<td>Expand existing partnerships and create new ones to advance the NIDCR research enterprise and increase its reach and impact.</td>
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NIDCR Extramural Research Training and Career Development Branch (RTCDB) Staff

RTCDB Institutional Training Initiatives

Anissa J. Brown, Ph.D.
Chief and Program Officer

RTCDB Individual Fellowship Awards (F)

Rachel Saré, Ph.D.
Program Officer

RTCDB Individual Career Awards (K)

Shoba Thirumangalathu, Ph.D.
Program Officer
NIDCR Research Training Programs
(https://www.nidcr.nih.gov/careers-training)

**INTRAMURAL**

- Graduate Partnership
- Medical Research Scholars
- NIH Summer Internship Program

**EXTRAMURAL**

- Clinical Research Fellowship
- Career Transition Awards (K)
- Research Development F, K
- Research Project Grants (R03, R15, R21, R01)

**High School**

- College students
- Predoctoral, Dual degree
- Postdoctoral
- Junior Faculty
- Investigator

- Institutional Training: T32, T90/R90
- K12 Dental Specialty + PhD
- NIH Loan Repayment Programs
- NIDCR-AADOCR Mentoring Network

**Science Education Partnership Award (SEPA) R25**

**Summer Research Experience R25**
National Institute of Dental and Craniofacial Research

Research Training and Career Development Branch

Belinda Hauser, PhD, Director

Belinda.hauser@nih.gov

NIDCR Research Training Programs
(https://www.nidcr.nih.gov/careers-training)
FY 2022

Predoctoral

- 34 (Diversity/Reentry-n=14 HS-undergraduate, post-bac/post-MS); (R25-n=20 undergraduates)
- 30 DDS-PhD Predoctoral Trainees (T32/T90)
- 33 DDS-PhD Predoctoral Fellows (F30)
- 48 PhD Predoctoral Trainees (T32/T90)
- 78 PhD Predoctoral Fellows (F31, n=51); (Diversity (F31-D, n=9); (Diversity Supplement, n=13); (F99, n=2); (U2R, n=3)

Postdoctoral

- 63 Postdoctoral Trainees (T32/T90/R90)
- 22 Postdoctoral Fellows (F32)
- 55 Postdoc (K00, n=1), K99, n=24; K22, n=2; LRP, n=2; (Diversity/Reentry Supplement, n=6); D43, n=18; U2R, n=1; (Dentist Scientist Admin Suppl, n=1)

Early Career

- 10 Mentored Research Scientist Awards, (K01 Diversity/Reentry, n=10)
- 25 Clinical Scientist Career Development Awards (K08)
- 9 Patient-Oriented Career Development Awards (K23)
- 3 Mentored Quantitative Research Career Dev. Award (K25)
- 1 Emerging Global Leader’s Award (K43)
- 10 Loan Repayment Program
- 1 NIDCR Dentist Scientist Career Transition Award for Intramural Investigator (K22)
- 6 Institutional Scholars (K12 DSPP)
- 11 AADR MIND the Future UE5

Mid-Career to Established Investigator

- 10 Independent Scientist Award (K02 n=2); Diversity Suppl n=6; (K18 n=1), LRP n=1
Trends in NIH vs NIDCR FTK Funding
FY 2013 – FY 2022

NIDCR vs. NIH F, T, and K Data: FY 2013 - FY 2022
Considerations for Choosing a Funding Opportunity

• Career stage
  – Predoctoral dual degree; predoctoral PhD – *and progress in program*
  – Postdoctoral researcher, junior faculty - *duration of mentored research training*

• Citizenship status
  – U.S. citizen, permanent resident, non-citizen (visa status, or in foreign country)

• Academic and professional degrees
  – Clinicians, dual degree DDS/DMD-PhD dentist scientists, degrees in Engineering, Mathematics and other Quantitative Sciences

• Other qualifying circumstances
  – Re-entering the research workforce
  – Member of group under-represented in biomedical research (diversity focused)
  – Critical life events, Natural Disasters, Public Health Emergencies
Fellowship Awards (Fs)
NIDCR Fellowship (F), Career Development (K) and Career Transition Awards (F99/K00; K99/R00)

**Fellowships (F):**
- Predoctoral: dual degree research training
- Postdoctoral: mentored postdoctoral research training

**Predoctoral to Postdoctoral Transition Award (F99/K00):** mentored predoctoral research training to postdoctoral career development

**Postdoctoral to Faculty career Transition Awards (K99/R00; K22):** mentored postdoctoral career development to independent research support

**Career Development Awards (K):**
- Predoctoral
- Postdoctoral
- Early-Stage Investigator

F30, F31, F99/K00
F32, K01, K08, K22, K23, K25, K99/R00
K01, K08, K23, K25, K43
• Training Grants (T32 and T90) & Fellowships (F30, F31, F32, F99)
• Predoctoral and Postdoctoral
  – Eligibility: US Citizen, permanent resident at time of award
  – Full time professional effort (100%)
  – Award
  – Stipend per career stage
  – Tuition and Fees
  – Institutional Allowance (Fellowships)
Individual NRSA Fellowships

- **F30**: Predoctoral Dual Degree DDS/DMD-PhD (PA 21-050 and PA 21-049)
- **F31**: Predoctoral PhD (PA 21-051)
- **F31 Diversity**: PhD training for individuals from underrepresented groups (racial, ethnic, disabled, disadvantaged) (PA 21-052)
- **F32**: Postdoctoral training; may be used to support PhD research training for Health Professionals (PA 21-048)
Individual Predoctoral to Postdoctoral Transition Awards (F99/K00) to promote diversity

• NIDCR Predoctoral to Postdoctoral Transition Award for A Diverse Dental, Oral, and Craniofacial Research Workforce (F99/K00 Clinical Trial Not Allowed) (PAR 21-060)
  – PhD and dual degree students from underrepresented groups (racial, ethnic, disabled, disadvantaged), see NIH Interest in Diversity NOT-OD-20-031
  – US citizens, permanent residents
  – 2 years F99 (NRSA stipend), 3 years K00 (salary up to $75,000)

• NIH Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award (F99/K00 Independent Clinical Trial Not Allowed) (RFA-NS-21-012)
  – PhD students conducting neuroscience research, individuals from underrepresented groups (racial, ethnic, disabled, disadvantaged)
  – US citizens, permanent residents
  – 1-2 years F99 (NRSA stipend), 4 years K00 (salary up to $50,000)
NIDCR Dual Degree Dentist Scientist Predoctoral to Postdoctoral Transition Award

- NIDCR Dual Degree Dentist Scientist Predoctoral to Postdoctoral Transition Award (F99/K00 Independent Clinical Trial Not Allowed) (PAR 21-108)
  - Dual degree DDS/DMD-PhD students
  - U.S. citizens, permanent residents and non-U.S. citizens
  - 2 years F99 (100% effort, NRSA stipend) institutional allowance
  - 3 years K00 (minimum 75% effort; salary up to $75,000; $10,000 research support)

  - Phased award to facilitate completion of predoctoral dual degree dentist scientist training (F99) and progression to mentored postdoctoral positions in dental, oral and craniofacial research (K00)
  - Successful completion of phased award will enhance dual degree dentist scientists' research career trajectories
## F Applications: Standard Due Dates

<table>
<thead>
<tr>
<th>Activity Code</th>
<th>Cycle I Due Date</th>
<th>Cycle II Due Date</th>
<th>Cycle III Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>F Series</strong></td>
<td>April 8 (Oct Council) (December start)</td>
<td>Aug 8 (Jan Council) (April start)</td>
<td>Dec 8 (May Council) (July start)</td>
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</table>
NRSA Support Limits (T and F series)

- Dual degree: 6 years
- Predoctoral: 5 years
- Postdoctoral: 3 years
Announcement of Childcare Costs for Ruth L. Kirschstein National Research Service Award (NRSA) Individual Fellows

- Each full time NIH-NRSA supported fellow is eligible to receive $2,500 per budget period to defray costs for childcare provided by a licensed childcare provider.
- If both parents are NRSA fellows, each parent is eligible to receive $2,500.

- Childcare costs are permitted for dependent children living in the eligible fellow’s home from birth up to under the age of 13, or children who are disabled and under age 18.
- Recipients must maintain all supporting documentation (e.g., proof provider is licensed) to be made available to NIH only upon request.
- NRSA childcare costs are not tied to payback obligations.
- **Instructions:** see Guide Notices NOT-OD-21-074 (new and continuation fellowships) and NOT-OD-21-070 administrative supplements to existing fellowships.
Career Development Awards (Ks)
Eligibility:
• US citizen or permanent resident, full time salaried position, *at time of award*
• *Except* K43 Emerging Global Leaders award

Effort:
• 75% effort research and career development (K support)
• 25% effort clinical, teaching, administrative activities (university support)

Award:
• $100,000 salary and fringe benefits, per year; 3-5 years
• $25,000 research development support, per year; 8% indirect costs

Dentists:
• May use for research leading to a PhD
• Dentist who earn a PhD under K support are eligible for K99/R00
• **K99 eligibility:**
  
  – Applicants must have no more than 4 years of postdoctoral research experience. It is expected that K99 awardees will receive at least 12 months of career development support from the award before transitioning to the R00 phase.
  
  – Time spent away from research in clinical training, caring for family, and other considerations including medical conditions are NOT considered in the 4-year window of eligibility

• **New:** Potential applicants who have a child within the 4 years of postdoctoral research may request a one-year extension of eligibility
  
  – Email Program Officer at least 12 weeks before submission
  
  – Provide child’s date of birth
### NIDCR Pathway to Independence
#### Career Transition K99/R00 Programs

<table>
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<tr>
<th><strong>NIH PARENT</strong></th>
<th><strong>NIGMS MOSAIC</strong></th>
<th><strong>NIDCR DENTIST SCIENTIST</strong></th>
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<tbody>
<tr>
<td>- Any doctoral degree</td>
<td>- Any doctoral degree</td>
<td>- Dual degree DDS/DMD-PhD</td>
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<tr>
<td>- US citizen, permanent resident, non-citizen</td>
<td>- Diversity candidate, US citizen, permanent resident</td>
<td>- US citizen, permanent resident, non-citizen</td>
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<tr>
<td>- 1-2 years mentored K99</td>
<td>- 1-2 years mentored K99</td>
<td>- 2-year K99 phase required unless significant prior postdoc</td>
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<tr>
<td>- 3-year independent R00</td>
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<td>- Participate in a Mentoring Network</td>
<td>- Optional 5-year R00 award if concurrent 25% specialty training</td>
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Less than 4 years postdoctoral experience; K99 postdoctoral transition to R00 independent tenure track position

75% minimum research effort; remaining 25% accommodates specialty/clinical activities – both phases

NIDCR K99 salary up to $100,000; fringe; $25,000 research; 8% indirect costs

R00: $249,000 total costs
Mentored Career Development Awards (K)
Eligibility: Clinical Doctoral Degree

Mentored Clinical Scientist Research Career Development Award (K08)
• Supports basic biomedical and behavioral research, including translational research

Mentored Patient-Oriented Research Career Development Award (K23)
• Supports individuals with clinical doctoral degrees to conduct research with human subjects (or on material of human origin such as tissues, specimens and cognitive phenomena for which an investigator directly interacts with human subjects)

Emerging Global Leader Award (K43) non-U.S. citizens
• Supports early career research scientist from a low- or middle-income country (LMIC) who holds a junior faculty position at an LMIC academic/research institution, as defined by the World Bank [(http://data.worldbank.org/about/country-classifications/country-and-lending-groups)], including “low-income,” “lower-middle-income,” and “upper-middle-income” countries. Expected to lead to an independently funded research career at an LMIC institution. Research in any health-related discipline relevant to the health priorities of their country under the mentorship of LMIC and U.S. mentors. NIDCR supports dental, oral and craniofacial research.
Mentored Career Development Awards (K)

NIDCR Mentored Career Development Award to Promote Diversity in the Dental, Oral and Craniofacial Research Workforce (K01)
Supports individuals with doctoral degrees and are from groups underrepresented in biomedical research (racial, ethnic, disabled, disadvantaged)

NIH Mentored Research Scientist Development Award (K01)
Supports re-entry into the research workforce for individuals with doctoral degrees who have had a research career interruption; examples medical or family circumstances, military service

Mentored Quantitative Research Development Award (K25)
Supports productive quantitative scientists and engineers seeking to integrate their expertise with NIH relevant research, postdocs to senior faculty are eligible
# K Applications: Standard Due Dates

<table>
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<th>Activity Code</th>
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<th>Cycle III Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>K Series new</td>
<td>February 12</td>
<td>June 12</td>
<td>October 12</td>
</tr>
<tr>
<td>K Series renewal, resubmission, revision</td>
<td>March 12</td>
<td>July 12</td>
<td>November 12</td>
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Administrative Supplements
Administrative Supplements to Active NIDCR Research Grants

- **Support for mentored research experiences prior to independent funding**
- **Additional funding for qualifying circumstances**

- **High School**
- **College Student**
- **Pre-doctoral, Dual Degree**
- **Post-doctoral**
- **Early-stage Investigator**
- **Investigator**

- Research Supplements to Promote Diversity, Investigators who become Disabled
- Research Supplements to Promote Re-entry and Re-integration
- Research Supplements for Dentists Post-Residency
- Supplements to K awards to Support Research Continuity

[https://www.nidcr.nih.gov/careers-training](https://www.nidcr.nih.gov/careers-training)
NOT-OD-23-031 Notice of Special Interest: Administrative Supplements to Promote Research Continuity and Retention of NIH Mentored Career Development (K) Award Recipients and Scholars

- **Critical life events**: include childbirth, adoption, primary caregiving responsibilities of an ailing spouse, child, partner, or a member of the immediate family during the project period; if event is pending and expected to occur during the project period, application may be submitted in advance of the event.

- **Provide evidence**: that circumstance may affect advancement of K award/productivity.

- **Additional support**: for personnel, computational services, supplies, and equipment to achieve K goals. Supplement funds may not be used for PI salary support.

- **Award**: one year, $70,000 direct costs, must be during competing segment of active K (excludes No Cost Extension).

- **Application instructions**: Administrative Supplements to Existing NIH Grants and Cooperative Agreements (Parent Admin Supp Clinical Trial Optional) [PA-20-272](https://nihbpa.nih.gov/PA-20-272).

For retention supplements to support first-time NIH R01-Equivalent Awards see [NOT-OD-23-032](https://nihbpa.nih.gov/NOT-OD-23-032).
Research Supplements to Support Dentist Scientists Post Clinical Specialty or Residency

Administrative Supplements to Support Dentist Scientists Post Specialty or Residency to Develop Expertise in Dental, Oral and Craniofacial Research (NOT DE-20-035)

• Supplement to PI’s active NIDCR research funding (DP2, R01, R21, R35, R37, R42, R43, R44, U01, UG3, UH3)
• **Candidate eligibility**: DDS/DMD or DDS/DMD-PhD
• U.S. citizen, permanent resident, non-citizen
• In last year or recently completed dental specialty/residency training
• Previous predoctoral/postdoctoral research experience
• Must plan application for individual support, e.g., NIDCR mentored K award (K01, K08, K23), career transition award (K99/R00), a research project grant (R)
• One year of mentored research support, minimum 75% effort, optional 2nd year
• Salary up to $100,000 per year; fringe benefits, $25,000 research support
Research Supplements: Research Training for Individuals from Diverse Backgrounds

Research Supplements to Promote Diversity in Health-Related Research PA-23-189

• PIs of research project grants (e.g., Rs) can apply to support candidates from diverse backgrounds performing research within the scope of the original award

• Candidates: high school students through predoctoral, postdoctoral trainees and investigators developing independent research careers NIH’s Interest in Diversity: NOT-OD-20-031
Research Supplements to Promote Re-Entry and Re-integration into Biomedical and Behavioral Research Careers (NOT-OD-21-134)

- PIs of research project grants (e.g., Rs) apply to support eligible candidates performing research within the scope of the original award

- **Re-Entry Candidates:**
  - Academic and/or professional doctoral degree, U.S. citizens, permanent residents; previous postdoctoral/faculty position
  - High potential to re-enter an active research career after an interruption for family responsibilities or other qualifying circumstance
  - Full-time or part-time effort to update research skills and knowledge, establish/re-establish career as a productive, competitive investigator, apply for independent funding

- **Re-Integration Candidates:**
  - Graduate/Dual Degree Students or Postdocs transitioning to a safe-supportive research environment after experiencing unlawful discrimination or harassment
NIH Extramural Loan Repayment Programs (LRPs)

NIH Loan Repayment Programs repay up to $50,000 annually of a researcher's qualified educational debt in return for a commitment to engage in NIH mission-relevant research

- Clinical Research *
- Pediatric Research *
- Health Disparities Research*
- NIDCR REACH for dentist-scientists *NEW in 2022
- Contraception and Infertility Research
- Clinical Research for Individuals from Disadvantaged Backgrounds

Eligibility:
- U.S. citizen/permanent resident; doctoral degree (except Contraception and Infertility)
- Qualified educational debt (new applications, at least 20% of annual salary)
- Conduct qualifying research at least 20 hrs./week
- Research funded by U.S. domestic nonprofit, university, or government organization - NIH funding NOT required

http://www.lrp.nih.gov
Institutional Research Training and Career Development Initiatives
NIDCR Institutional Awards

41 Active Awards

• 7 High School Students
• 51 Undergraduates
• 74 Predocs
• 48 Postdocs
• 6 Dental Specialty Scholars
• Total Direct Costs: $10,912,800

National Research Service Award Institutional Research Training Grants (T32, T90/R90)
(https://www.nidcr.nih.gov/careers-training/interns-fellows/graduate-students/nrsa-institutional-research-training-grants)
“Comprehensive” training program with the expectation of enhancing research training to ensure a highly qualified workforce

Incorporates didactic, research and career development components

Training Tracks (100% effort)
- Dual Degree Dentist-PhD predoctoral training
- PhD predoctoral training
- Postdoctoral training; dentists earning PhDs

Support in the form of stipend, tuition and fees, travel, and training related expenses and institutional allowance

Supports full spectrum of dental, oral, and craniofacial research
- With a special interest in data science, AI, rigor and reproducibility, diversity
Summer Research Education Experience Program
(R25 Clinical Trial Not Allowed) (PAR-21-168)

- **Overarching Goals:**
  1. complement and/or enhance the training of a workforce to meet the nation’s biomedical, behavioral and clinical research needs;
  2. encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical and behavioral sciences, to pursue further studies or careers in research;
  3. help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical sciences; and
  4. foster a better understanding of biomedical, behavioral and clinical research and its implications.

- **Participants:** high school students, undergraduate students, and/or science teachers

- **Expected activities:**
  - hands-on research experiences;
  - scientific writing and presentation skills and
  - training in rigor and reproducibility.

- **Expected Outcomes:** reinforce one’s intent to graduate with a science degree, prepare participants for graduate or medical school admissions, and/or prepare them for careers in research.

- **Timeframe:** at least 8 weeks, but fewer than 15 weeks, of full-time research experiences during the summer

- **Award Budget:** Maximum of $125K DC per year

- **Award Project Period:** Up to 5 years may be requested
A pivotal decision in the research career development of dentist scientists is whether to pursue dental specialty training or research training after completing the dental degree.

**Funding Opportunity Purpose**

- Develop **structured cohesive programs** that provide advanced **clinical training** in an approved dental specialty, **career development activities**, and **mentored research training** leading to a PhD in biomedical or behavioral science.

- Facilitate **transition** to independent and productive dental, oral, and craniofacial (DOC) research career.

- **Successful completion** of the DSPP can be demonstrated by a specialty certificate or master's degree associated with the clinical education, and a PhD degree.

- A minimum appointment of 3 consecutive years and apply a minimum of 75% research effort. **Scholars may receive up to a maximum of 5 years of K12 DSPP support.**

- **Maximum of 2 scholars per year**
• Research component - must be at the doctoral level (PhD or equivalent)
  – include didactic training, mentored research experiences designed to accommodate scholars with varying levels of research experience
  – Incorporate team science-based approaches
  – Highly encourage the development and use of Individual Development Plans (IDPs)
  – Creative partnerships with other organizations for mentorship opportunities is encouraged
Purpose
• Increase the number of urban, rural and minority students considering research and medical careers
• Public health literacy

Partnerships
• Scientists and clinicians partnering with educators, community organizations and science centers

Goals
• Career opportunities for minority and underserved students to increase workforce diversity
• Teacher professional development

Target Audiences
• Pre-K to grade 12
• General public

Topics
• Any area of NIH funded basic or medical research

Next application due date: July 14, 2023

https://nihsepa.org/
STrengthening Research Opportunities for NIH Grants (STRONG)  
Structured Institutional Needs Assessment and Action Plan  
Development for Resource Limited Institutions  
(UC2 - Clinical Trial Not Allowed)  

**Purpose:**  
This Funding Opportunity will provide resources to the institutions to  
1. Conduct the assessment of research infrastructure and other requirements that will enhance administrative and research resources, institutional policies, and expanded opportunities for faculty and students in the biomedical research enterprise;  
2. Use the results of these institutional assessments to develop action plans that will support the conduct of high-quality biomedical research.  

**Application Due: September 18, 2023**  
Inquiries: Anissa Brown, anissa.brown@nih.gov
AADOCR Mentoring an Inclusive Network for a Diverse Workforce of the Future (AADOCR MIND the Future)

- Mentoring network for diverse pool of early career investigators in dental, oral and craniofacial research
- Foster retention and career advancement of postdoctoral scientists and junior faculty
- Develop professional skills and provide a mentored grant writing experience
- Increase diversity of the NIDCR research workforce

https://www.iadr.org/awards/mind-the-future
NIDCR Global Health Research Training and Career Development Opportunities
Emerging Global Leader Award (K43) [PAR-21-252, PAR-21-251]

- Mentored Research Career Development Award for Junior Faculty from a low- or middle-income country (LMIC); LMIC and U.S. co-Mentors

Global Health Program for Fellows and Scholars

- NIDCR supports Fellows associated with U.S. Consortia for one year training opportunities in dental, oral and craniofacial research

Chronic, Non-Communicable Diseases and Disorders Across the Lifespan: Fogarty International Research Training Award (NCD-LIFESPAN) (D43 Clinical Trial Optional) [PAR-22-104]

- Program to strengthen the capacity of LMIC institution(s) to support independent research through research training of individual researchers
NIDCR Interests: Emerging Global Leader Award (K43) Program

Applications with a research focus on:
• dental, oral, or craniofacial conditions that occur more frequently in low- and middle-income countries, or are of a high public health burden
• addressing health disparities in dental, oral, or craniofacial conditions
• achieving national or regional goals in oral and dental health such as those articulated by the World Health Organization

Examples include, but are not limited to:
• working with local communities to establish the best means of delivering preventive oral health care
• establishing successful approaches to deliver fluoride to a local population, particularly in areas without potable water
• studying oral pre-malignant lesions associated with betel nut use
• studying the interplay of genes and environment in dental, oral, or craniofacial health by leveraging environments specific to the country.
NIDCR areas of interest: applications that develop research capacity to improve dental, oral, and craniofacial health across the lifespan.

Focus of research training topics in LMICs include, but are not limited to:

- addressing disparities in access to oral health care;
- prevention, early detection and intervention relating to dental, oral and craniofacial diseases and disorders;
- development and application of genomics, bioinformatics, and computational biology expertise for basic and translational dental, oral, and craniofacial research;
- integration of oral health care into care for chronic, non-communicable diseases and disorders, and implementation science.
Global Health Program for Fellows and Scholars

- **NIDCR supports Fellows associated with U.S. Consortia for one-year global health dental, oral and craniofacial research training**

- **2019-2021 NIDCR supported**
  - 8 fellows: 7 fellows from LMICs; 1 U.S. postdoc
  - 6 dentists with expertise in public health/epidemiology
  - 2 MDs (oral surgery, infections disease)

- **LMICs: Tanzania, South Africa, Cameroon, Vietnam (2), Peru (2), Uganda**
NIH PARENT

- Any doctoral degree
- US citizen, permanent resident, non-citizen
- 1-2 years mentored K99
- 3-year independent R00

Less than 4 years postdoctoral experience; K99 postdoctoral transition to R00 independent tenure track position
75% minimum research effort; remaining 25% accommodates specialty/clinical activities – both phases

NIDCR K99 salary up to $100,000; fringe; $25,000 research; 8% indirect costs
R00: $249,000 total costs
NIDCR Research Training Grants Support Non-Citizen Dentists

NIDCR Institutional Training for a Dental, Oral and Craniofacial Research Workforce (T90/R90)

- T90 Ruth L. Kirschstein National Research Service Award (NRSA) supports U.S. citizens, permanent residents; predoctoral and postdoctoral trainees
- **R90 Research component trains non-citizen dentists at U.S. institutions**
- **Contact information for R90 training opportunities:** National Research Service Award Institutional Research Training Grants (T32, T90/R90) (https://www.nidcr.nih.gov/careers-training/interns-fellows/graduate-students/nrsa-institutional-research-training-grants)
NIDCR Research Training and Career Development Branch (RTCDB) Staff

RTCDB Institutional Training Initiatives

Anissa J, Brown, Ph.D.
Chief and Program Officer

RTCDB Individual Fellowship Awards (F)

Rachel Saré, Ph.D.
Program Officer

RTCDB Individual Career Awards (K)

Shoba Thirumangalathu, Ph.D.
Program Officer
Careers & Training | National Institute of Dental and Craniofacial Research (nih.gov)
The purpose of the Training News section is to showcase “Trainees”, trainee research accomplishments and celebrate trainee career milestones!

What to expect? Upcoming events, research findings, funding opportunities etc.

Visit the NIDCR website to sign up for NIDCR News.
Follow NIDCR on Social Media: @NIDCR

LinkedIn (https://www.linkedin.com/company/national-institute-of-dental-and-craniofacial-research-nidcr)

www.nidcr.nih.gov
Budget Overview
NRSA Fellowships

- Fiscal Year 2023 – National Research Service Award (NRSA) – NOT-OD-23-076
  - Stipend
    - Predoc - $27,144/year
    - Postdoc - $56,484-$68,604/year
  - Tuition/Fees
    - Predoc – 60% of actual tuition level up to $16,000/$21,000
    - Postdoc – 60% of actual tuition level up to $4,500/$16,000
  - Institutional Allowance
    - Predoc - $4,550
    - Postdoc - $12,200
NRSA Fellowships – Additional Costs

• Travel Costs – for NIDCR $800/year
• Childcare Costs – NOT-OD-21-074
  – Full-time NIH-NRSA-supported fellowship positions.
  – $2,500 per budget period
  – How to request:
    ▪ New Applications:
      – PHS Fellowship Supplemental Form
      – Enter $2,500 for the Amount, and “12” for the number of months
      – Enter ‘Childcare Costs’ as the Type
    ▪ Continuation Applications:
      – Section G.1 of the RPPR, upload a PDF named “Childcare Costs”
      – Attachment must include the amount and the number of years
Career Awards

- **Salaries and Fringe Benefits**
  - Up to $100,000 plus fringe benefits/year

- **Research Development Support Costs**
  - Up to $25,000/year
  - Commonly used for supplies, equipment, technical/statistical personnel, travel to research meetings or training, tuition/fees for courses, computational services

- **Facilities and Administrative Costs**
  - F&A/Indirect Costs at 8% of modified total direct costs (MTDC)
  - State/local agencies, and Indian tribes are eligible for full F&A costs

- **Rebudgeting within direct costs categories** is allowed without prior approval, unless a restriction is included in the Notice of Award
• Fiscal Year 2023 – National Research Service Award (NRSA) – **NOT-OD-23-076**
  – Stipend
    ▪ Predoc - $27,144/year
    ▪ Postdoc - $56,484-$68,604/year
  – Tuition
    ▪ Predoc – 60% of actual tuition up to $16,000/$21,000
    ▪ Postdoc – 60% of actual tuition up to $4,500/$16,000
  – Trainee Related Expenses
    ▪ Predoc - $4,550
    ▪ Postdoc - $12,200
  – Travel – for NIDCR $800/year
  – Childcare Costs – **NOT-OD-21-177**
NRSA Payback Requirements

• Applicable to postdoctoral fellows and trainees with at least 12 months of NRSA support
• Requires recipients of support to “pay back” Federal government by engaging in health-related research, research training, teaching (or combination)
• To “pay back”:
  – Receive an equal number of months of postdoc NRSA support beginning in the 13th month of such postdoc NRSA support
  – Engage in an equal number of months of applicable health-related activities averaging more than 20 hours per week
NRSA Fellowships and Institutional Training – Rebudgeting of Funds

• Stipends must be expended using the stipend level provided in the award. Any unexpended stipends must be returned and cannot be rebudgeted into another budget category.
• Tuition/fees is generally restricted and can only be rebudgeted after approval of a formal request.
• Institutional allowance/Trainee-Related Expenses is a fixed amount and can only be rebudgeted into the tuition/fees category without prior approval.
• Travel costs are not considered fellow/trainee costs, and can be rebudgeted into another category without prior approval.
Scientific Review Overview
Overview of Peer Review at NIH

Thomas O’Farrell, Ph.D.
Scientific Review Officer
Scientific Review Branch
NIDCR, NIH
Why Do Peer Review?

- Forms the cornerstone of the NIH extramural research mission.
- To identify the most promising research.
- Applications are reviewed by scientific experts in a manner that is free of undue influence.

Courtesy of OER
Core Values of NIH Peer Review

All stakeholders and participants are responsible for upholding the core values of peer review

• Expert assessment
• Transparency
• Impartiality
• Fairness

• Integrity
• Security
• Confidentiality
• Efficiency

Courtesy of OER
NIH Peer Review

Two-Tiered Review Process

• First Level of Review
  • Scientific and Technical Merit and/or potential to further the career goal and training of the applicants
  • Study Section or Special Emphasis Panel

• Second Level of Review
  • Institute/Center programmatic assessment
  • National Advisory Dental and Craniofacial Research Council

The NIDCR Director makes Final Funding Decisions
Application Review Cycle

- **Prepare to Apply**
- **Write Application**
- **Submit Application**
- **Application Review**
- **Award**
- **Funding Decision**

**Standard Dates**
- **Applications Due**
  - Late Winter/Spring
  - Summer
  - Fall
- **Peer Review**
  - Early Summer
  - Fall
  - Winter
Application Compliance Is Checked Prior to Review

Non-compliant applications will be withdrawn
Scientific Review Officer Recruit 3 or More Reviewers Per Application
Factors Impacting Reviewer Recruitment

- Scientific & mentoring expertise
- Funding
- Career stage
- Review experience
- Publications
- Diversity
The SRO prepares for and holds the Peer Review Meeting
What happens before the review meeting?

- Three or more assigned reviewers
- Preliminary Overall Impact scores & individual Criterion scores
- Preliminary written critiques
### Review Criteria for Fellowship Applications

<table>
<thead>
<tr>
<th>Overall Impact</th>
<th>Takes into consideration the scored and additional review criteria below</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Likelihood that the fellowship will enhance the applicant’s potential for, and commitment to, a productive independent scientific research career in a health-related field</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scored Review Criteria</th>
<th>Scored individually</th>
<th>Factored into overall impact score</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Fellowship Applicant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Sponsors, Collaborators, and Consultants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Research Training Plan</td>
<td></td>
<td></td>
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<tr>
<td>• Training Potential</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Institutional Environment and Commitment to Training</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Review Criteria</th>
<th>Not scored individually</th>
<th>Factored into overall impact score</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Protections for Human Subjects</td>
<td></td>
<td></td>
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<tr>
<td>• Inclusion Plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Vertebrate Animals</td>
<td></td>
<td></td>
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<tr>
<td>• Biohazards</td>
<td></td>
<td></td>
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<tr>
<td>• Resubmission</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Review Considerations</th>
<th>Not scored individually</th>
<th>Not factored into overall score</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Training in the Responsible Conduct of Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Select Agents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Resource Sharing Plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Budget &amp; Period of Support</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Review Criteria for Career Development (K) Applications

<table>
<thead>
<tr>
<th>Overall Impact</th>
<th>Takes into consideration the scored and additional review criteria below</th>
</tr>
</thead>
</table>
| **Scored Review Criteria** | **Scored individually**  
| **Additional Review Criteria** | **Factored into overall impact score**  
| **Additional Review Considerations** | **Not factored into overall score** |

| **Scored Review Criteria** | **Candidate**  
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Career development plan</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Research plan</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Mentors, consultants, and collaborators</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Environment and institutional commitment to the candidate</strong></td>
<td></td>
</tr>
</tbody>
</table>

| **Additional Review Criteria** | **Protections for Human Subjects**  
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Inclusion Plans</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Vertebrate Animals</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Biohazards</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Resubmission; Renewal</strong></td>
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</tbody>
</table>

| **Additional Review Considerations** | **Training in the Responsible Conduct of Research**  
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Applications from Foreign Institutions</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Select Agents</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Resource Sharing Plans</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Authentication of Key Biological and/or Chemical Resources</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Budget &amp; Period of Support</strong></td>
<td></td>
</tr>
</tbody>
</table>

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**NIH National Institute of Dental and Craniofacial Research**

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Peer Review Participants

Scientific Review Officer
- Ensures reviewers provide fair review and abide by the 8 core values of peer review: expert assessment, transparency, impartiality, fairness, confidentiality, security, integrity, efficiency
- Ensures review criteria are applied appropriately
- Ensures NIH peer review laws and policies are followed

Peer Reviewers
- Scientists with appropriate expertise
- Committed to objective and unbiased review
- DO NOT MAKE FUNDING DECISIONS!!!
What happens at the review meeting?

- **Preliminary scores**: decision on whether an application will be discussed or “streamlined”

- **Score-driving Strengths and Weaknesses** presented by assigned reviewers

- **Discussion**: all members of the study section discuss the application

- **Voting**: all study section members present for the discussion vote based on information presented and discussed, score range 1-9

- **Final score**: Average of all scores X 10. Ex., 3.4 becomes 34.
Application Scores Available via eRA Commons

- Score released to personal eRA Commons account no later than 3 business days after review meeting
- PI can view only their own score
- Discussed applications receive numerical scores

<table>
<thead>
<tr>
<th>Impact</th>
<th>Score</th>
<th>Descriptor</th>
<th>Additional Guidance on Strengths/Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>1</td>
<td>Exceptional</td>
<td>Exceptionally strong with essentially no weaknesses</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Outstanding</td>
<td>Extremely strong with negligible weaknesses</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Excellent</td>
<td>Very strong with only some minor weaknesses</td>
</tr>
<tr>
<td>Medium</td>
<td>4</td>
<td>Very Good</td>
<td>Strong but with numerous minor weaknesses</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Good</td>
<td>Strong but with at least one moderate weakness</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Satisfactory</td>
<td>Some strengths but also some moderate weaknesses</td>
</tr>
<tr>
<td>Low</td>
<td>7</td>
<td>Fair</td>
<td>Some strengths but with at least one major weakness</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Marginal</td>
<td>A few strengths and a few major weaknesses</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>Poor</td>
<td>Very few strengths and numerous major weaknesses</td>
</tr>
</tbody>
</table>
Summary Statement Release

Usually within a month after review
PROGRAM CONTACT:
LESLIE FRIEDEN
301-496-4263
friedenla@nidcr.nih.gov

SUMMARY STATEMENT
(Privileged Communication)

Release Date: 03/10/2011

Application Number: 1 F30 DE00100-01

Spat, Jack
The Regents of the University of California, San Lean
Could Eat No Fat Research Lab
San Lean, CA 91111

Review Group:
NIDCR Special Grants Review Committee
NIDCR Special Grants Review Committee: Review of F, K, and R03 Applications

Meeting Date: 02/24/2011
Council: MAY 2011
Requested Start:

Project Title: Analysis of the Role of Cookie Crumbs Signaling in Smileogenesis
Requested: 2 year

Sponsor: His, Wife
Department: Platter Sciences
Organization: UNIVERSITY OF CALIFORNIA SAN LEAN
City, State: SAN LEAN CALIFORNIA

SRG Action: Impact/Priority Score: 33

Human Subjects: 30-Human subjects involved - Certified, no SRG concerns
Animal Subjects: 44-Vertebrate animals involved - SRG concerns
Gender: 1A-Both genders, scientifically acceptable
Minority: 1A-Minorities and non-minorities, scientifically acceptable
Children: 1A-Both Children and Adults, scientifically acceptable
Clinical Research - not NIH-defined Phase III Trial
What Is in the Summary Statement?

Resume (summary) if Application is discussed

Reviewer 1, 2 and 3
  - Significance   1
  - Investigator   3
  - Innovation   2
  - Approach   4
  - Environment  1

Comments on each

Additional review criteria and considerations
  - Human Subjects, Vertebrate Animals, etc.
  - Budget recommendation

Roster
Tips for Preparing Your Application

• Start Early
• Select and read the entire FOA
• Follow Instructions in FOA
• Follow SF424 Instructions/Supplemental
• Use the Assignment Request Form
Tips on Writing a Competitive Application

Peer Review is Not Perfect

- Bias cannot be completely eliminated
- Perspective differ among reviews – big picture, details
- Some reviewers are more critical than others
Tips on Writing a Competitive Application

- Approaches should be innovative, state of the art techniques, datasets should be most recent.
- Mentors and Collaborators – Make sure all the expertise is covered.
- Letters of Support should be strong not boiler plate. Collaborators biosketches.
- Have your draft application reviewed by someone that has obtained funding and not involved in your work. Ask them to score it.
Grants Resources

- **NIH Grants Home Page** (https://grants.nih.gov/)
- **Information for Researchers**, many useful links (https://grants.nih.gov/grants/information-for-research.htm)
- **Links to Instructions for each type of Grant** (https://grants.nih.gov/grants/how-to-apply-application-guide.html)
Questions?

Tom O’Farrell  
Scientific Review Officer  
Scientific Review Branch  
NIDCR, NIH  
Tom.o’farrell@nih.gov
NIH RePORTER: Identify Research Areas and Mentors

RePORTER (RePORT Expenditures and Results)

- Database of NIH-funded research projects
- MATCHMAKER tool: text searches
- Resource to identify:
  - Potential mentors and collaborators
  - Research gaps and opportunities
  - Individual NIH Institute/Center funded research area(s)
  - Peer review Study Sections
  - NIH Program Officer contact information

NIH RePORTER
https://projectreporter.nih.gov/
Accessing NIH Funded Research Topics

Welcome to Research Portfolio Online Reporting Tools (RePORT)

In addition to carrying out its scientific mission, the NIH exemplifies and promotes the highest level of public accountability. To that end, the Research Portfolio Online Reporting Tools provides access to reports, data, and analyses of NIH research activities, including information on NIH expenditures and the results of NIH supported research.

Spotlight

NIH COVID-19 Research
Explore NIH's comprehensive summary of ongoing COVID-19 research, including funding, clinical trials, and more.

Preview a modernized RePORTER, which offers faster searches and mobile-friendly interface.

Subscribe to the NIH RePORT ListServ to stay up to date on changes to these sites.
Accessing NIH Funded Research Topics
Application Preparation - Tips

• Read Notice of Funding Opportunity from beginning to end multiple times.

• Submit biosketch and specific aims to NIDCR RTCDB Program Officers for review of alignment to NIDCR mission.

• Consult with individuals not intimately involved in your project for the feedback on application.

• Don’t bury important information; don’t expect reviewers to “read between the lines” to figure out what you are proposing.

• For fellowships and career development awards,
  o Apply early
  o Consider a Sponsor and/or Co-Sponsor.

• Make sure faculty biosketches are up-to-date and the personal statement is relevant to the funding opportunity.

• For institutional awards,
  o Consider Program leadership with complimentary expertise
  o Data in tables and text should align

• Present outcomes data in a straightforward manner.
  o Don’t exaggerate
  o Don’t hide data (reviewers will “do the math”)

• After Scientific Review, contact Program Officer to discuss the details of the Summary Statement
NIH Resources

- **Grants Process Overview**

- **What happens to your application during and after review?**
  (https://public.csr.nih.gov/ForApplicants/InitialReviewResultsAndAppeals/applicationduringafterreview)

- **Peer Review** (https://grants.nih.gov/grants/peer-review.htm)

- **Understand the Review Process** (https://www.niaid.nih.gov/grants-contracts/review-process)

- NIH has a YouTube Channel, one can select Channels, then select the channel for Grants
  - **Fundamentals of the NIH Grant Process and Need to Know Resources**
    (https://www.youtube.com/watch?v=-U72FWz2YCg)
  - **NIH Grant Basics and Need-to-Know Resources**
    (https://www.youtube.com/watch?v=YWSB4Mjsk2M)
Text Alternatives for Diagrams
Text Alternative for Slide 12 – NIDCR Research Training Programs

• In the middle of the slide, there is a thick arrow that spans the entire width of the slide, and points to the right. Different career stages are written across the arrow, progressing left to right as follows: High School, College students, Predoctoral, Dual degree, Postdoctoral, Junior Faculty, Investigator.

• Above and below the arrow are boxes that contain the titles of different NIDCR research training programs, placed according to the career stage eligible for each one. The boxes are color coded to differentiate intramural and extramural opportunities.

• List of NIDCR Research Training Programs, Organized By Career Stage

  • High School
    o Intramural: NIH Summer Internship Program
    o Extramural: Science Education Partnership Award (SEPA) R25, Summer Research Experience R25
  
  • College students
    o Intramural: NIH Summer Internship Program
    o Extramural: Summer Research Experience R25

  • Predoctoral, Dual degree
    o Intramural: NIH Summer Internship Program, Graduate Partnership, Medical Research Scholars
    o Extramural: Fellowships (F’s) Pre-Post F99/K00, Summer Research Experience R25, Institutional Training T32 and T90/R90

  • Postdoctoral
    o Intramural: Career Transition Awards (K), Clinical Research Fellowship
    o Extramural: Fellowship (F) Career Awards (K’s, K99/R00), Institutional Training T32 and T90/R90, K12 Dental Specialty + PhD, NIH Loan Repayment Programs, NIDCR-AADOCR Mentoring Network

  • Junior Faculty
    o Intramural: Career Transition Awards (K)
    o Extramural: Career Awards (K’s), NIH Loan Repayment Programs, NIDCR-AADOCR Mentoring Network

  • Investigator
    o Extramural: Research Development F & K, NIH Loan Repayment Programs

  • The very end of the arrow indicates that once applicants reach the investigator stage of career development, they may apply for non-training related opportunities such as Research Project Grants (R03, R15, R21, R01).
List of NIDCR Research Training & Career Development Programs to Enhance Diversity, Organized by Career Stage.

- **High School**
  - NIDCR-Participating Programs: Research Supplements to Promote Diversity & Disabled Investigators

- **Undergraduate**

- **Predoctoral**
  - NIDCR-Specific Programs: NIDCR F99/K00 to enhance diversity
Text Alternative for Slide 14 – NIDCR Research Training & Career Development Programs to Enhance Diversity (continued)

- **Postdoctoral**
  - NIDCR-Specific Programs: NIDCR F99/K00 to enhance diversity, NIDCR – AADOCR Mentoring Network (UE5), NIH K01 – NIDCR to promote re-entry, NIDCR K01 to enhance diversity
  - NIDCR-Participating Programs: Research Supplements to Promote Diversity & Disabled Investigators, SBIR/STTR Research Supplements to Promote Diversity & Disabled Investigators, NIH Blueprint Diversity F99/K00 D-SPAN, NIGMS MOSAIC K99/00, Common Fund National Research Mentoring Network, Research Supplements to Promote Re-entry, NIGMS SuRE Research Capacity Programs (R16), FIC Institutional D43 Fellows and Scholars, FIC Institutional D43 NCD –LIFESPAN, NIH Loan Repayment Programs

- **Junior Faculty**
  - NIDCR-Specific Programs: NIDCR – AADOCR Mentoring Network (UE5), NIH K01 – NIDCR to promote re-entry, NIDCR K01 to enhance diversity
  - NIDCR-Participating Programs: Research Supplements to Promote Diversity & Disabled Investigators, SBIR/STTR Research Supplements to Promote Diversity & Disabled Investigators, CF FIRST Program, NIGMS MOSAIC K99/00, Common Fund National Research Mentoring Network, Research Supplements to Promote Re-entry, NIGMS SuRE Research Capacity Programs (R16), FIC K43 Global Leaders, FIC Institutional D43 Fellows and Scholars, NIH Loan Repayment Programs

- **Investigator**
  - NIDCR-Participating Programs: Research Supplements to Promote Diversity & Disabled Investigators, SBIR/STTR Research Supplements to Promote Diversity & Disabled Investigators
In the middle of the slide, there is a thick arrow that spans the entire width of the slide, and points to the right. Different career stages are written across the arrow, progressing left to right as follows: Predoctoral, Postdoctoral, Early-Stage Investigator.

Above the arrow are boxes that indicate the opportunities available for each stage, as follows:

- **Pre-doctoral:** F30, F31, F99/K00
- **Post-doctoral:** F32, K01, K08, K22, K23, K25, K99/R00
- **Early-Stage Investigator:** K01, K08, K23, K25, K43

Boxes below the arrow describe each opportunity type:

- **Fellowships (F)** provide support for pre-doctoral research training, pre-doctoral dual degree research training, or mentored post-doctoral research training.
- **The Predoctoral to Postdoctoral Transition Award (F99/K00)** provides support from a period of mentored pre-doctoral research training through post-doctoral career development.
- **The Postdoctoral to Faculty Career Transition Awards (K99/R00 & K22)** provide support from a period of mentored post-doctoral career development through the establishment of independent research support.
- **Career Development Awards (K)** provide support for post-doctoral or junior faculty to receive mentored research career development.
Text Alternative for Slide 35 – Administrative Supplements to Active NIDCR Research Grants

In the middle of the slide, there is a thick arrow that spans the entire width of the slide, and points to the right. Different career stages are written across the arrow, progressing left to right as follows: High School, College Student, Predoctoral & Dual Degree, Postdoctoral, Early-stage Investigator, Investigator.

Below the arrow are boxes that contain the titles of different Administrative Supplements to Active NIDCR Research Grants, placed according to the career stage eligible for each one.

List of Administrative Supplements to Active NIDCR Research Grants, Organized by Career Stage

- High School
  - Research Supplements to Promote Diversity, Investigators who become Disabled

- College Student
  - Research Supplements to Promote Diversity, Investigators who become Disabled

- Predoctoral & Dual Degree
  - Research Supplements to Promote Diversity, Investigators who become Disabled
  - Research Supplements to Promote Re-entry and Re-integration

- Postdoctoral
  - Research Supplements to Promote Diversity, Investigators who become Disabled
  - Research Supplements to Promote Re-entry and Re-integration
  - Research Supplements for Dentists Post-Residency
  - Supplements to K awards to Support Research Continuity
Text Alternative for Slide 35 – Administrative Supplements to Active NIDCR Research Grants (continued)

- Early-stage Investigator
  - Research Supplements to Promote Diversity, Investigators who become Disabled
  - Research Supplements to Promote Re-entry and Re-integration
  - Research Supplements for Dentists Post-Residency
  - Supplements to K awards to Support Research Continuity

- Investigator
  - Research Supplements to Promote Diversity, Investigators who become Disabled
  - Research Supplements to Promote Re-entry and Re-integration
The slide is titled NIDCR Research Training Programs, followed by a corresponding web link to https://www.nidcr.nih.gov/careers-training.

In the middle of the slide, there is a thick arrow that spans the entire width of the slide, and points to the right. Different career stages are written across the arrow, progressing left to right as follows: High School, College students, Predoctoral, Dual degree, Postdoctoral, Junior Faculty, Investigator.

Above and below the arrow are boxes that contain the titles of different NIDCR research training programs, placed according to the career stage eligible for each one. The boxes are color coded to differentiate intramural and extramural opportunities.

List of NIDCR Research Training Programs, Organized By Career Stage

- **High School**
  - Intramural: NIH Summer Internship Program
  - Extramural: Science Education Partnership Award (SEPA) R25, Summer Research Experience R25, NHGRI R25 Diversity Action Plan in Genomics

- **College students**
  - Intramural: NIH Summer Internship Program
  - Extramural: Summer Research Experience R25, NHGRI R25 Diversity Action Plan in Genomics

- **Predoctoral, Dual degree**
  - Intramural: NIH Summer Internship Program, Graduate Partnership, Medical Research Scholars
  - Extramural: Fellowships (F’s) Pre-Post F99/K00, Summer Research Experience R25, Institutional Training T32 and T90/R90, NHGRI R25 Diversity Action Plan in Genomics

- **Postdoctoral**
  - Intramural: Career Transition Awards (K), Clinical Research Fellowship
  - Extramural: Fellowship (F) Career Awards (K’s, K99/R00), Institutional Training T32 and T90/R90, K12 Dental Specialty + PhD, NIDCR-AADOCR Mentoring Network

- **Junior Faculty**
  - Intramural: Career Transition Awards (K)
  - Extramural: Career Awards (K’s), NIDCR-AADOCR Mentoring Network, NIGMS SuRE Research Capacity Programs (R16)

- **Investigator**
  - Extramural: Research Development F & K, NIGMS SuRE Research Capacity Programs (R16)

The very end of the arrow indicates that once applicants reach the investigator stage of career development, they may apply for non-training related opportunities such as Research Project Grants (R03, R15, R21, R01).