NICHD Clinician Scientist Investigator Meeting

Opportunities for Research at Intramural NIH and the NIH Clinical Research Center
National Institutes of Health

• 27 Institutes and Centers
  • Extramural Research Program (Primarily University based)
    • Grants
  • Intramural Research Program (Primarily NIH Bethesda, MD campus)
    • Board of Scientific Counselor Review
    • High risk/high reward research
    • Research that would be difficult in the extramural environment (longitudinal studies)

• Eunice Kennedy Shriver National Institute of Child Health and Human Disease
  • Intramural research program
    • 60 Tenured and tenure-track investigators
    • 12 Affinity Groups
NICHD DIR Areas of Expertise

• Basic Science
  • Developmental Biology
  • Cell and Structural Biology
  • Genetics, Genomics and Epigenetics of Development
  • Neurosciences

• Core Facilities in NICHD
  • Bioinformatics
  • Microscopy and imaging
  • Molecular Genomics
  • Zebrafish
  • Mouse facility

• Clinical Science
  • Endocrinology
    • Pediatric
  • Endocrine oncology
  • Reproductive
  • Clinical Genetics
    • Rare Diseases
  • Adolescent Gynecology

Recruiting in areas of interest to NICHD Pediatrics and Women’s Health
The NIH Clinical Center ("House of Hope")

- Opened in 1953; more than 500,000 patients since opening
- Clinical Research Center opened in April 2005; 240 beds
- Approximately 1,300 credentialed physicians
- Approximately 1600 active protocols and 500 PIs
  - 49% Interventional Trials (Phase 1/2)
  - 45% Natural History
- FY2018 CC Budget: ~$500M
- 18 ACGME Medical Training Programs, 4 with NICHD participation
The NIH Clinical Center

- Research participants: 100%
- New patients: 9,755
- Inpatient days: 41,579
- Outpatient visits: 95,220
NICHD Clinical Research Program

• ~70-75 Clinical Protocols

• 30 Principal Investigators and 166 Associate Investigators

• Office of the Clinical Director
  • Staff clinicians (2 pediatric, 2 med/peds, 2 internal medicine)
  • Nurse practitioners
  • Research nurses
  • Protocol management/regulatory support

• Clinical Center “School Tax”

• NICHD-Duke Master’s Program in Clinical Research
NIH Intramural Research Positions
Postdoctoral Fellowships

• Intramural Research Training Awards and Visiting Fellows

• Basic and translational research
  • Laboratory research
  • Bioinformatics
  • Epidemiology

• 3 to 5-year program

• https://www.training.nih.gov/programs/postdoc_irp

• https://www.training.nih.gov/career_services/postdoc_jobs_nih
Staff Clinicians

• Clinical Research Support or Specialized Clinical Care
  • Board-eligible or board-certified in area of expertise
  • Focus on clinical care
  • Service position
    • Supports clinical research
    • Supports clinical training

• Academic advancement
  • Assistant Research Physician
  • Associate Research Physician
  • Senior Research Physician

• Can be a steppingstone to independent research positions

• [https://oir.nih.gov/sourcebook/personnel/ipds-appointment-mechanisms/staff-clinician#:~:text=A%20Staff%20Clinician%20is%20a,are%20placed%20in%20indefinite%20appointments](https://oir.nih.gov/sourcebook/personnel/ipds-appointment-mechanisms/staff-clinician#:~:text=A%20Staff%20Clinician%20is%20a,are%20placed%20in%20indefinite%20appointments).
Assistant Clinical Investigators

- Mentored research positions
- Goal: Transition to tenure-track positions at the NIH or elsewhere
- Competitive merit-based national search
- Three-year appointments (can be renewed annually up to 5 years)
- Basic, translational and clinical research
  - ≥ 20% patient-related activities
- Independent resources
  - Salary (FTE position), operating budget, personnel, space
  - Access to core facilities
  - Clinical support personnel (Nurse Practitioner/Research Nurse)
  - Use of the NIH Clinical Center

https://oir.nih.gov/sourcebook/personnel/ipds-appointment-mechanisms/assistant-clinical-investigator
Tenure-Track Investigators

• Independent research positions
  • Assistant professor equivalent
  • Six to eight-year tenure-track period
• Mentorship committee and Board of Scientific Counselors review
• Independent resources
  • Start up package, budget, personnel and space consistent with proposed research plan
• Use of NICHD Core facilities
• Clinical support (Nurse practitioner/Research nurse)
• Use of the NIH Clinical Center
Stadtman Tenure-Track Investigators

• Broad, NIH DIR-wide search for Tenure-Track Investigators

• Basic science/PhD emphasis
  • Health Disparities
  • Translation from Pre-clinical to Clinical Research

• Independent research position

• Independent resources (~R01 equivalent)

• Tenure success rate: ~70%

• 2020-2021 application deadline: September 30th

Lasker Clinical Research Scholars Program

• Goal: Identify exceptional, early stage clinical researchers and provide a transition to an independent position

• NIH funding for up to 10 years
  • 5-7 years tenure-track investigator in the NIH Intramural Research Program
  • NIH tenure or 3 years of extramural NIH funding ($499,000/year direct costs)

• Candidates: Early stage clinical researchers with the ability to conduct independent research

• Application deadline: August

• https://www.nih.gov/research-training/lasker-clinical-research-scholars
Intramural/Extramural Collaboration
Bench-to-Bedside Awards

• Collaboration
  • Basic and clinical principal investigators
  • Extramural and intramural investigators
  • Promote use of the NIH Clinical Center
  • Seed Awards: $150,000/year (direct costs) for two years

• Categories
  • HIV/AIDS
  • Rare Diseases (Office of Rare Disease Research, NCATS)
  • Behavioral and Social Sciences (Office of Behavioral and Social Sciences)
  • Women’s Health (Office of Research on Women’s Health)
  • Dietary Supplements (Office of Dietary Supplements)
  • Minority Health and Health Disparities (National Institute on Minority Health & Health Disparities)
  • General
Bench-to-Bedside Awards

Applications / Awards

Applications

Awards

Year

1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019

Applications:
- 25-40%
Bench-to-Bedside Awards

2006-2019: 205 awards, 96 sites

- Erasmus University Medical Center, Netherlands
- Hospital A.C. Camargo, Brazil
- Hospital for Sick Children, Canada
- Imperial College of London, UK
- International Agency for Research on Cancer, France
- Garvan Institute of Medical Health, Australia
- Makerere University, Uganda
- Sackler School of Medicine, Israel
- University of New South Wales, Australia
- University of Toronto, Canada
- University of Oxford, UK
- Zaria, Nigeria
- The University of Edinburgh, UK
Bench-to-Bedside Awards

- NICHD Bench-to-Bedside award metrics: 1999-2020
  - 138 / 1070 (~13%) Applications led by NICHD investigator
  - 41 successful applications (2020 pending)
  - 31 included extramural collaborations
  - Funds to NICHD Investigators: ~$5.6 million
Collaborating with NIH Intramural Investigators at the Clinical Center (U01 Program)

• **Goal:** to support collaborative research projects aligned with NIH efforts to enhance the translation of basic biological discoveries into clinical applications that improve health

• Up to $500K/year x 4 years, renewable

• Teams *must* have one extramural and one intramural co-PI

• Some of the work *must* be done at the CC

• U01 funding mechanism
Collaborating with NIH Intramural Investigators at the Clinical Center (U01 Program)

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- 41 awards over last 7 years
- Mean success rate 18%
  - Range: 3-30%
- $40.9 million
Why Consider the NIH DIR?
NIH Intramural Research Program

• High-Risk/High-Reward research encouraged

• Relatively stable funding
  • Research budget and 4-year review rather than competitive grants
  • Facilitates longitudinal studies

• The worlds largest research hospital
NICHD Clinical Research Program

For more information:

- NICHD Intramural Research Program
  - https://www.nichd.nih.gov/about/org/dir
- NICHD Strategic Plan
  - https://www.nichd.nih.gov/about/org/strategicplan
- Clinical Research Positions in NICHD
  - fdporter@mail.nih.gov
Questions