



National Human Genome
Research Institute

—
The **Forefront**
of **Genomics**
—

NHGRI Research Funding Opportunities

Simona Volpi, Ph.D.

Program Director, NHGRI

ISCC-PEG Annual Meeting

Feb 15, 2023

Funding Opportunities Announcements (FOAs)

- General FOAs

- <https://www.genome.gov/about-nhgri/Division-of-Genomic-Medicine>

- Training FOAs

- <https://www.genome.gov/careers-training/NHGRI-Funding-Opportunities-Training-Career-Development>



Advancing Genomic Medicine Research

- RFA-HG-20-036 (R01) and RFA-HG-20-037 (R21)

This FOA encourages applications that stimulate innovation and advance understanding of when, where, and how best to implement the use of genomic information and technologies in clinical care.



Due Dates: August 3, 2020; March 8, 2021; November 2, 2021; August 1, 2022; March 13, 2023

Expiration Date: March 14, 2023

Contact: Christine Chang, christine.chang2@nih.gov

Investigator Initiated Research in Computational Genomics and Data Science

- PAR-21-254 (R01) and PAR-21-255 (R21)

The purpose of this FOA is to invite applications for a broad range of research efforts in computational genomics, data science, statistics, and bioinformatics relevant to one or both of basic or clinical genomic science, and broadly applicable to human health and disease. This FOA supports fundamental genomics research that develops innovative analytical methodologies and approaches, early-stage development of tools and software, and refinement or hardening of software and tools of high value to the biomedical genomics community.

Due Dates: Standard dates apply

Expiration Date: Sep 8, 2024

Contact: Daniel Gilchrist, Ph.D., Daniel.Gilchrist@nih.gov



Notice of Special Interest: Development and Implementation of Clinical Informatics Tools to Enhance Patients' Use of Genomic Information

NOT-HG-22-011

NHGRI is issuing a Notice of Special Interest (NOSI) to encourage applications to develop and implement patient-facing genomic-based clinical informatics tools that facilitate or enhance patient-provider electronic communication, patient tracking and registry functions, patient self-management and support, provider electronic prescribing, test tracking, referral tracking, and health care decision-making.

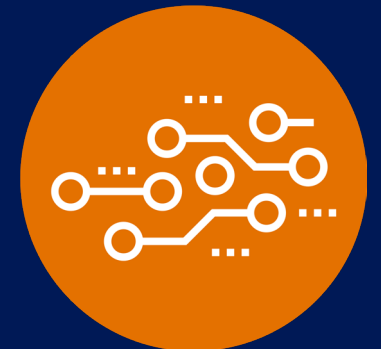
<https://grants.nih.gov/grants/guide/notice-files/NOT-HG-22-011.html>

Contact: Renee Rider, JD, MS, CGC, renee.rider@nih.gov



Mentored Research Experiences for Genetic Counselors (R25)

- PAR-21-074
 - Providing Genetic Counselors with research experiences
 - **Participants must hold a master's degree in genetic counseling.**
 - This program does not support doctoral students.
 - A research experience from 12 months to 24 months may be requested.
 - Candidates are required to commit a minimum of 50% of full-time professional effort
 - The maximum project period is 5 years.
 - Application budgets are limited to \$250,000 direct costs per year.
- Application Receipt Date(s): May 25, 2021, May 25, 2022, and May 25, 2023
- Expiration Date: May 26, 2023
- Contact: Heather Colley, heather.colley@nih.gov



Supporting Talented Early Career Researchers in Genomics



RFA-HG-22-001

- This Funding Opportunity Announcement is intended to identify and support research projects by exceptionally promising Early Stage Investigators with a long-term career interest in pursuing innovative research in genomics. This opportunity is open to research in all areas relevant to the mission of NHGRI, including genomic sciences, genomic medicine, genomic data science, and ethical, legal, and social implications of genomics.

Application Due Dates: see <https://grants.nih.gov/grants/guide/rfa-files/RFA-HG-22-001.html>

Expiration Date: February 28, 2024

Contact: Lisa Chadwick, lisa.chadwick@nih.gov

Training & Diversifying the Genomics Workforce



Undergraduate & Postbaccalaureate Training

- *Immersive Summer Program for Research in Genomics (iSPRinG)**
- *Postbaccalaureate Intramural Research Training Award**
- R25 - Genome Research Experiences to Attract Talented (GREAT) Undergraduates into Genomic Fields to Enhance Diversity (RFA-HG-22-004)[†]
- R25 - Initiative to Maximize Research Education in Genomics: Diversity Action Plan (PAR-19-380)[†]
- *Summer Internship Program in Biomedical Research**
- *Undergraduate Scholarship Program**

Master's & Predoctoral Training

- F30 - Predoctoral NRSA Fellowship for MD/PhDs (PA-21-050)
- F31 - Predoctoral NRSA Fellowship to Promote Diversity in Health-Related Research (PA-20-251)
- F99/K00 - Predoctoral to Postdoctoral Transition Award for a Diverse Genomics Workforce (PAR-21-143)
- *Graduate Partnerships Program (GPP)**
- *Immersive Summer Program for Research in Genomics (iSPRinG)**
- *Non-Doctoral Level Training in Social and Behavioral Research**
- R25 - Initiative to Maximize Research Education in Genomics: Diversity Action Plan (PAR-19-380)[†]
- R25 - Mentored Research Experiences for Genetic Counselors (PAR-21-074)[†]
- R25 - Research Experience in Genomic Research for Data Scientists (PAR-21-075)[†]
- *Summer internship Program in Biomedical Research**
- T32 - Research Service Award (NRSA) Institutional Research Training Grant (PA-20-142)[†]

<https://www.genome.gov/TIDHE/Select-Training-and-Funding-Opportunities>

Training & Diversifying the Genomics Workforce



Clinical & Residency Training

- *Combined Pediatrics and Medical Genetics Residency Program**
- *Immersive Summer Program for Research in Genomics (iSPRinG)**
- *Laboratory Genetics and Genomics Fellowship**
- R25 - Genomic Curriculum Development for Medical Students (PAR-21-312)[†]

Postdoctoral & Early-Stage Investigator Training

- F32 - Individual Postdoctoral NRSA Fellowship (PA-21-048)
- K01 - Mentored Research Scientist Development Award (PA-20-190, PA-20-176)
- K08 - Mentored Clinical Scientist Research Career Development (PA-20-202, PA-20-203)
- K18 - Mentored Research Career Enhancement Award to Promote Diversity (PAR-21-214)
- K25 - Mentored Quantitative Research Development Award (PA-20-199)
- K99/R00 - MOSAIC Postdoctoral Career Transition Award to Promote Diversity (PAR-21-271, PAR-21-272)
- K99/R00 - NIH Pathway to Independence Award (PA-20-187)
- *Laboratory Genetics and Genomics Fellowship**
- *Physician Scientist Development Program**
- *Postdoctoral Fellowship in Genomic Science and Health Equity**
- *Postdoctoral Training in NIH Intramural Research Program**
- T32 - Institutional Research Training Grant (PA-20-142)[†]

<https://www.genome.gov/TIDHE/Select-Training-and-Funding-Opportunities>

Training & Diversifying the Genomics Workforce

NHGRI Research Funding Opportunities

- Advancing Genomic Medicine Research (RFA-HG-20-036, RFA-HG-20-037)
- Diversity Centers for Genome Research (RFA-HG-22-026, RFA-HG-22-027)
- Ethical, Legal and Social Implications (ELSI) Research (PAR-20-254, PAR-20-255, PAR-20-257)
- Investigator Initiated Research in Computational Genomics and Data Science (PAR-21-254, PAR-21-255)
- New Investigators to Promote Workforce Diversity in Genomics, Bioinformatics, or Bioengineering and Biomedical Imaging Research (RFA-HG-21-041)
- NIH Science Education Partnership Award (SEPA) (PAR-20-153)
- Research Supplements to Promote Diversity in Health-Related Research (PA-21-071)
- Supporting Talented Early Career Researchers in Genomics (RFA-HG-22-001)

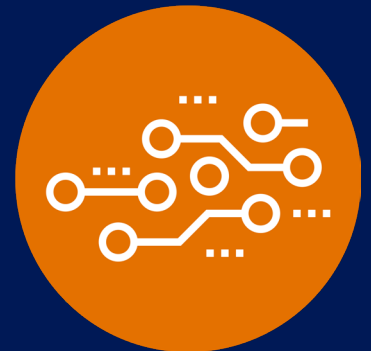
<https://www.genome.gov/TIDHE/Select-Training-and-Funding-Opportunities>

New Investigators to Promote Workforce Diversity in Genomics, Bioinformatics, or Bioengineering and Biomedical Imaging Research

- **RFA-HG-21-041**

This FOA solicits R01 grant applications that propose independent research projects that are within the scientific mission areas of the National Human Genome Research Institute (NHGRI), National Institute of Biomedical Imaging and Bioengineering (NIBIB), and All of Us Research Program (All of Us). This program is intended to support Early Stage Investigators and New Investigators from diverse backgrounds, including those from groups underrepresented in the health-related sciences.

- Application Receipt Date(s): February 22, 2022; February 22, 2023; February 22, 2024
- Expiration Date: February 23, 2024
- Contact: Jyoti Dayal, M.S., jyotig@mail.nih.gov



Diversity Centers for Genome Research (U54)

RFA-HG-22-026 and RFA-HG-22-027

1. The Diversity Center for Genome Research (DCGR) program aims to establish Genomic Research Centers at Minority Serving Institutions (MSIs). The MSIs must have a mission to serve historically underrepresented populations in biomedical research that award doctorate degrees in the health professions or the sciences related to health.
2. Each project should address one or more critical issues in genomics including: genomic technology and methods development; genome structure; genome function; genomics of disease; use and impact of genomic information in clinical care; genomic data science and computational genomics; ethical, legal, and social implications of genomic research; and/or genomics and health equity.
3. Along with its scientific goals, the DCGR should expand the pool of diverse genomic scientists, clinician scientists, and researchers who can perform innovative genomics research.



Due Dates: see <https://grants.nih.gov/grants/guide/rfa-files/RFA-HG-22-026.html>

Expiration Date: June 25, 2024

Contact: Ebony Madden, Ph.D., ebony.madden@nih.gov

Diversifying the Genomics Workforce

Support for Research Excellence (SuRE) Award (R16)



- [PAR-21-169](#)

The purpose of SuRE awards is to provide research grant support for faculty investigators who have prior experience in leading externally-funded, independent research but are not currently funded by any NIH Research Project Grants with the exception of SuRE or SuRE-First awards.

- Application Receipt Date(s): May 26, 2021, May 26, 2022, May 26, 2023
- Expiration Date: September 08, 2023
- Contact: Lisa H. Chadwick, Ph.D., lisa.chadwick@nih.gov

