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NIH Loan Repayment Program NHGRI Priorities

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National Human Genome Research Institute

National Institutes of Health

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National Human Genome
Research Institute

The **Forefront**
of **Genomics**[®]

NHGRI Scientific Interests

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- Develop generalizable and broadly applicable,
 - resources, approaches, and technologies
 - accelerate and support studies focused on the structure and biology of genomes,
 - identify the genomic underpinnings of human health and disease,
 - ensure that genomics is applied responsibly to improve patient care and benefit society



Genome Biology, Functional Genomics, and Technology Development

- Development of novel genomic technologies for measurement, sequencing, synthesis, and spatial biology.
- Functional genomics, gene regulation, epigenetics, chromatin, and transcriptomics, and multi-omic approaches.
- Comparative and population genomics to infer genome function and evolution.

Genomic Variation, Disease Mechanisms, and Clinical Interpretation

- Identifying and interpreting variants linked to Mendelian, rare, and complex diseases.
- Understanding molecular mechanisms connecting variants to biological function.
- Pharmacogenomics and other clinically relevant genomic analyses.

Clinical Genomics and Implementation in Healthcare

- Development and evaluation of clinical sequencing methods and workflows.
- Integration of genomic data into care delivery and electronic health systems.
- Studies of clinical utility, impact, equitable implementation, and return of genomic results.



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Computational Genomics, Data Science, and Genomic Infrastructure

- Computational tools for sequence analysis, variant interpretation, and functional genomics, and multi-omic analysis.
- Statistical genomics, population-scale analyses, and data privacy/security.
- Standards, databases, and platforms supporting large-scale genomic and phenotype data sharing.



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Ethical, Legal, and Social Implications in Genomics

- Design and implementation of genomic research.
- Integration of genomic data and technology into healthcare.
- Norms, values, and beliefs about genomics.
- Interplay of systems, organizations, and groups in genomics.



Genetic Counselors

LRP-FOCUS



Support genetic counselors at the Master's and doctoral levels.

Involved in genomics research offering their intellectual expertise either as part of a team or as an independent researcher.

The research focus must be toward advancing the science of genomic medicine and the incorporation of genomics in improving the effectiveness of health care.

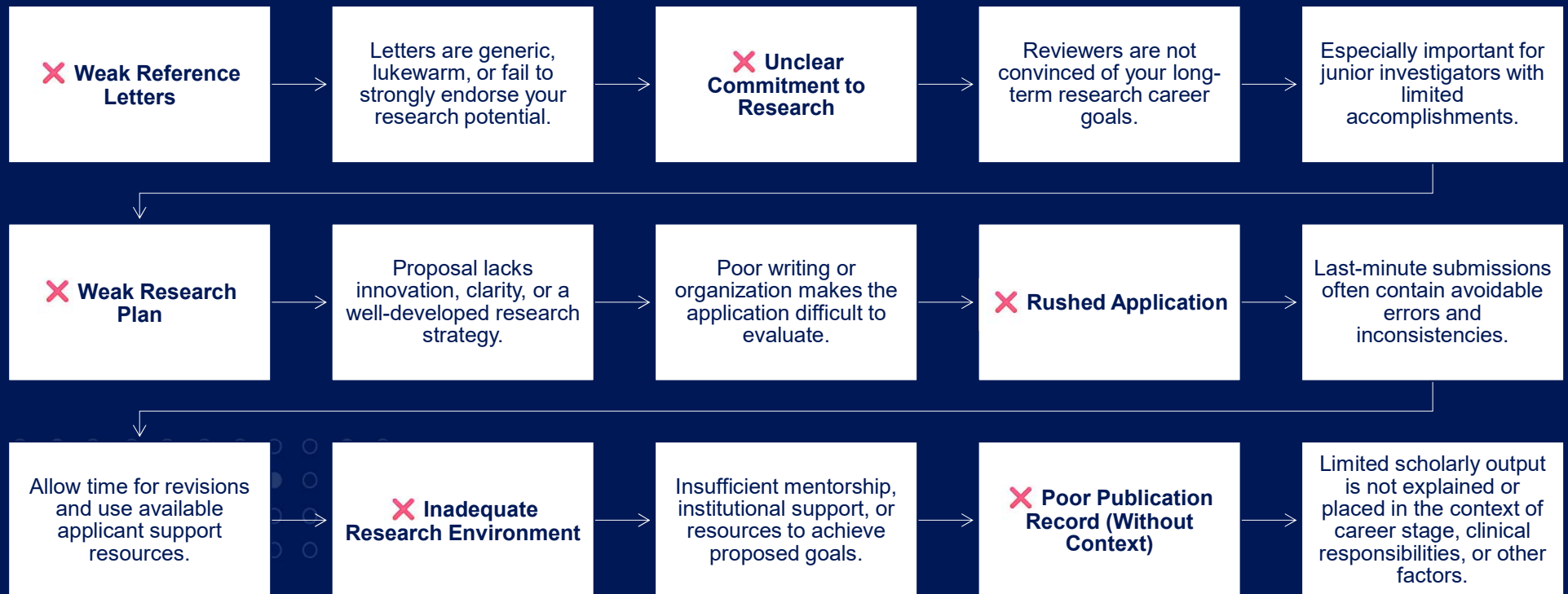
New Loan Repayment Program Notices

Extramural LRP Subcategories

****Researchers who are not employed by the NIH**

L30	Clinical Research	For investigators conducting patient-oriented clinical research with human subjects or research on disease in human populations involving material of human origin for which an investigator or colleague directly interacts with human subjects.	NOT-OD-26-081
L40	Pediatric Research	For investigators conducting research directly related to diseases, disorders and other conditions in children, including pediatric pharmacological research. Pediatric research does not need to involve human subjects.	NOT-OD-26-082
L70	Facilitating Opportunities in Cutting-edge Science (FOCUS)	For investigators pursuing major opportunities or gaps in emerging high-priority research areas, as defined by NIH Institutes and Centers. **NHGRI will support Master's and PhD, Genetic Counselors working in genomics research	NOT-OD-26-083 FOCUS statements (coming soon)

Common Reasons LRP Applications Are Not Funded



Successful LRP Application



DEMONSTRATE
QUALIFICATIONS
AND COMMITMENT
TO RESEARCH



STRONG RESEARCH
PLAN



COLLABORATE AND
INVOLVE YOUR
MENTOR(S)



CAREFULLY REVIEW
YOUR APPLICATION



ENSURE AN
OVERALL POSITIVE
IMPRESSION

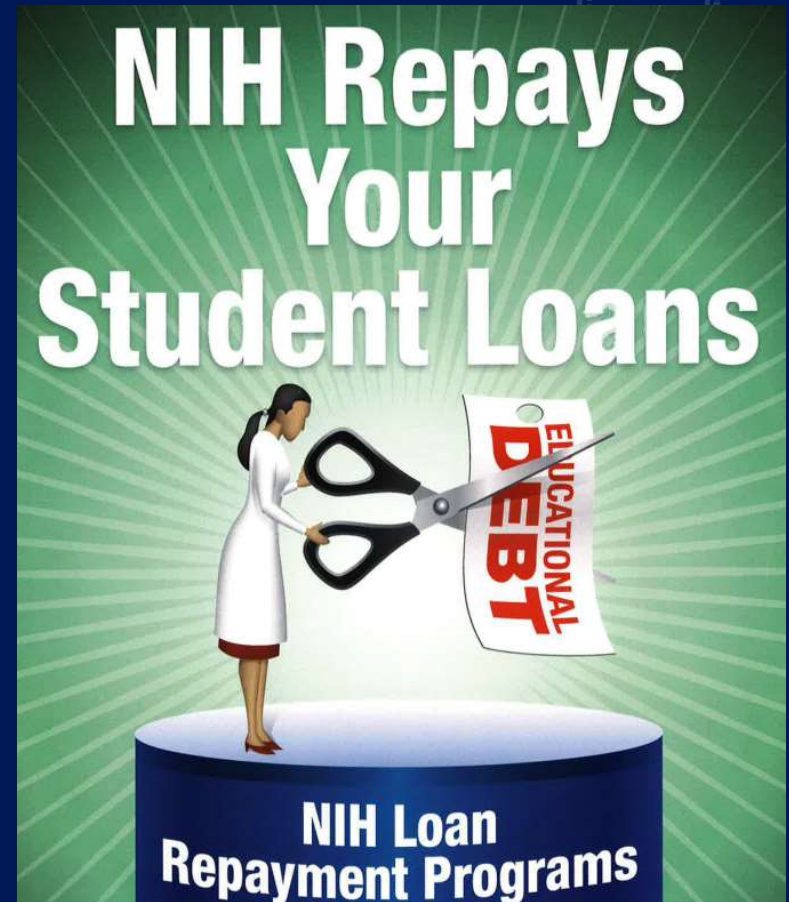
<https://www.lrp.nih.gov>

Application Cycle
September 1, 2026-November 19, 2026

Reach out before submitting!

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