For applications, policies and procedures, and programmatic information, please contact:

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NHF Research Priorities
The National Hemophilia Foundation (NHF) funds a broad range of research to lead to improvements in the lives of people with bleeding disorders. Its Judith Graham Pool Postdoctoral Research Fellowship program, founded in 1972, sponsors an array of clinical and basic research in the hemophilias or von Willebrand disease. The Nursing, Physical Therapy, and Social Work Excellence Fellowships provide support to practitioners to conduct nursing, psychosocial, and physical therapy research in the field of bleeding disorders.

NHF’s Career Development Award, created under the It’s Time for a Cure campaign, is designed to fund research into cures for bleeding disorders. This grant supports investigators at the assistant professor level who have demonstrated a commitment to bleeding disorders research.

Types of Research Grants/Awards
Bridge Grant – Awards $125,000 for one year to researchers who applied to the National Institutes of Health (NIH) and received high scores but did not receive funding. This award offers researchers the opportunity to increase their potential for future NIH funding.

Career Development Award - Awards $70,000 per year for up to three years. The grant will fund researchers at the assistant professor level who have demonstrated a commitment to bleeding disorders research.

Judith Graham Pool Postdoctoral Fellowship - Awards $42,000 per year for up to two years. The grant supports researchers who have completed doctoral training and enter from a doctoral, postdoctoral, internship, or residency training program.

Investigator Research Grant - Award up to $60,000 for 12-18 months. This grant provides support for a federally funded hemophilia treatment center health care professionals currently employed or interested in hemophilia care to conduct research. Eligible providers include: physicians, advance practice providers, nurses, social workers, physical therapists, data managers. Providers must be affiliated with a federally funded HTC.
Administration
- The Research Department at the National Hemophilia Foundation, with counsel from scientific and lay leaders, is responsible for the administration of the grant programs.
- Grantees are not employees of NHF but of their grantee institution and are subject to the policies and regulations of the grantee institution.
- Only noncommercial institutions and investigators associated with a noncommercial institution are eligible for NHF funding.
- NHF is a nonprofit organization and all grants are offered based on fundraising efforts; therefore, all grants and fellowships are contingent on funds available.

Peer Review Process
All grant and fellowship applications are subjected to a rigorous peer review process. **Applications that are incomplete or that do not follow all instructions will be returned.** Applicants are critiqued on scientific merit and relevance to NHF research priorities. Applications are reviewed and scored in the following categories:

**Significance:** Does this study address an important problem facing the bleeding disorders community? If the aims of the application are achieved, how will scientific knowledge of bleeding disorders be advanced? What will be the effect of these studies on the concepts or methods that drive this field?

**Approach:** Are the conceptual framework, design, methods, and analyses adequately developed, well integrated, and appropriate to the aims of the project? Does the applicant acknowledge potential problem areas and consider alternative tactics?

**Innovation:** Does the project employ novel concepts, approaches or methods? Are the aims original and innovative? Does the project challenge existing paradigms or develop new methodologies or technologies?

**Investigator:** Is the investigator appropriately trained and well suited to carry out this work? Is the work proposed appropriate to the experience of the PI or fellow and other researchers?

**Environment:** Does the scientific environment in which the work will be done contribute to the probability of success? Do the proposed experiments take advantage of the scientific environment or employ useful collaborative arrangements? Is there evidence of institutional support?

Applications will be peer reviewed by a panel selected by the Research Working Group, a volunteer body composed of scientific and lay members. Final funding approval is granted by the National Hemophilia Foundation.

Change in Status
The grantee is responsible for contacting the Research Department at NHF if there are any changes in status in the grantee institution, sponsor, budget, or in the status of pending grants. The grantee and his/her sponsor or mentor are expected to remain at their institution for the duration of the project. In the event that the grantee, sponsor, or
mentor does leave the institution, he or she should notify the National Hemophilia Foundation immediately. The transfer of the project to another institution or investigator is at NHF’s sole discretion. Any changes in budget after a grant or fellowship is awarded must be requested in writing and the justification must be explained in detail. NHF retains sole discretion to reject or accept budget changes.

Additional Funding
Applicants must submit information on all current and pending funding sources to NHF. It is permissible for an applicant's project to receive additional funding from another source. In the event of a change in the status of a pending application, all grantees are required to notify NHF.

Termination of Support
NHF reserves the right to terminate support of a funded project at any time for any reason in its sole discretion.

Publications
Grantees are required to place an acknowledgment of NHF grant support on any publication. Publications resulting from research funded by NHF must accompany progress reports. The National Hemophilia Foundation reserves the right to publish, reproduce, and distribute non-confidential material generated from all projects. All work including, but not limited to, videos, written reports, and other materials deriving from a project shall remain the property of the National Hemophilia Foundation.

Availability of Research Results and Resources
Restricted availability of research results or resources upon which further studies are dependent can impede the advancement of research and the delivery of medical care. Therefore, results and resources developed while funded by an NHF grant must be made available for research purposes to qualified individuals within the scientific bleeding disorders community. Categories of these resources include but are not limited to synthetic compounds, organisms, cell lines, viruses, cell products, cloned DNA, DNA sequences, mapping information, crystallographic coordinates, and spectroscopic data.

Human Subjects
The applicant's institution has the primary responsibility for protecting the rights and welfare of human subjects in any research activity supported by the National Hemophilia Foundation. Applicants requesting funding for research involving human subjects must submit written approval of the research project from the institution's Institutional Review Board. No funds will be awarded until these materials are received, reviewed, and approved by NHF. It is the responsibility of the awardee and the institution to notify NHF of all changes to the research protocol involving human subjects.

Use of Animals in Research
National Institutes of Health policy defines animals as, “any live, vertebrate animal used or intended for use in research, research training, experimentation, or biological testing or for related purposes.” NHF adheres to the following principles regarding the use of animals in research:
1. Animals shall be used in research only when no other means of obtaining scientifically sound, valid, and useful results are available.

2. The minimum number of appropriate animals required to obtain and validate results shall be used.

3. The acquisition, care, and use of animals must be in accordance with all applicable federal, state, and local laws and regulations.

4. Certifications must be received from research facilities prior to being approved for a research grant that the facility(ies), its researchers, and employees adhere to the Animal Welfare Act, National Research Council *Guide for the Care and Use of Laboratory Animals*, the standards for laboratories established by the Association for the Assessment and Accreditation of Laboratory Animal Care International, and any appropriate U.S. Department of Agriculture or National Institutes of Health regulations and standards. No funds will be awarded until these materials are received, reviewed, and approved by NHF.

5. In cases requiring the death of an animal, only the most appropriate and humane form of euthanasia shall be used consistent with the purpose of the research.

It is the responsibility of the awardee and the institution to notify NHF of all changes to the research protocol involving animals.

**Inventions and Patents**

All NHF grants are subject to NHF’s policy on inventions and patents. By accepting an award for a research project, the principal investigator or other personnel contributing to and working on the project, as well as the institution(s) with which they are affiliated, agree to be bound by the terms and conditions of NHF’s policy on inventions and patents.

NHF understands that patents and licensing agreements may be sought on inventions resulting from research by the grant recipient supported in whole or in part by funds furnished by NHF; that such inventions should be administered so that they are introduced into public use as soon as practicable; and that such result will be achieved through granting permission to patent and license such inventions. Accordingly, it adopts the following policy:

1. An invention (hereinafter "NHF invention") resulting from the support in whole or in part to the grant recipient of funds awarded by NHF shall be reported promptly in writing to NHF’s Research Department.

2. If the university or other research institution or an individual investigator(s) associated therewith ("Institution" or "Investigator") which is the recipient of financial support for the work leading to the NHF invention has an established patent and licensing policy and procedure for procuring and administering inventions which are known to and accepted by NHF, or has an agreement with another organization,
including agencies or departments of the U.S. government relating to the NHF invention due to joint support, NHF will defer to that policy or agreement on the following terms:

a. With respect to any such invention, the Institution or Investigator shall have the right to file a patent application, and if the Institution or Investigator decides not to file a patent application, NHF shall be notified thereof within a reasonable time and NHF shall have the right to file a patent application. On any Institution- or Investigator-filed or NHF-filed patent application and on any patent obtained thereof or thereon, NHF shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for and on its behalf any such invention and to grant sublicenses thereunder. The patent application(s) and patent(s) obtained thereon shall embrace the United States and all countries outside of the United States. The inventions herein above contemplated shall include those made by employees or agents of the Institution or Investigator and third parties under the control of the Institution or Investigator.

b. The Institution or Investigator will notify NHF in writing of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of response period required by the relevant patent office. The grantee institution will convey to NHF, upon written request, title to any such patent application or patent.

c. The Institution or Investigator will make the invention available for commercial licensing upon reasonable terms and conditions.

d. From the monies, if any, received from licensing the invention, NHF and the Institution or Investigator and all other parties shall share on terms mutually agreed upon by the Institution or Investigator and NHF, such terms to be determined prior to any licensing or commercial exploitation of the invention with NHF’s share being at least equal to the percent of total funding that NHF has provided to support the specific research project through grants and awards.

e. In the event that it obtains a patent, license arrangement or other commercial exploitation of an invention, the Institution or Investigator shall make periodic reports to NHF with respect to its utilization of the invention and account for any income received by it by reason of exploitation of the invention.

f. NHF agrees that if it, or its licensee, has not taken effective steps within two years (or such lengthier period agreed to by NHF and the Institution or Investigator) after a United States patent issues on an NHF invention left for administration to the Institution or Investigator to bring the NHF invention to the point of practical application, and the Institution or Investigator cannot establish to NHF’s satisfaction that it should retain all rights, title, and interest to an NHF invention for a further time period, the Institution or Investigator upon NHF’s request shall: (1) assign said patent, and (2) cancel any outstanding exclusive licenses under said patent, and NHF shall have the right to require the Institution
or Investigator to grant licenses under said patent to an applicant on a nonexclusive, royalty-free basis or on such other terms as NHF may request.

g. If NHF and the Institution or Investigator are unable to settle upon participation in licensing terms or other items in 2a-2f by mutual agreement, such participation shall be determined pursuant to arbitration by a majority of three arbitrators. NHF and the Institution or Investigator shall each designate an arbitrator, and the two so selected shall select a third. Any such arbitration proceeding shall be conducted in accordance with the rules of the American Arbitration Association.

3. If the Institution or Investigator has no patent or licensing policy and procedure for administering inventions, NHF shall have the right to determine the disposition of the invention rights in any such case.

Scientific Misconduct and Fraud
The grantee institution is responsible for having and instituting a written policy or guidelines on conflict of interest and scientific misconduct and fraud. This policy must be supplied to NHF. It is the responsibility of the institution and the awardee to inform NHF of any institutional investigation involving the conduct of an investigator funded by NHF. It is also the responsibility of the institution and grantee to keep NHF informed of the progress and outcome of the investigation. Findings of fraud or misconduct are sufficient grounds to terminate support of the funded project.

Assurance of Compliance
NHF complies with all relevant state and federal equal opportunity and discrimination laws and regulations and requires all institutions awarded funds from NHF also to comply with relevant state and federal equal opportunity and discrimination laws and regulations.