

Extramural Program and Funding Opportunities – NHLBI

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Extramural Program Responsibilities

- **Scientific Program Management and Administration**
 - Manage grant portfolio
 - Monitor scientific progress
 - Analyze and evaluate grant and contract programs
- **Program Leadership and Development**
 - New Initiatives
- **Advice and Guidance to Prospective Applicants**
 - Respond to public, patients, and Congress
 - Respond to scientific/professional communities

What kind of research is supported

- Basic Studies
- Clinical Investigations
- Population-based studies
- Clinical Trials
- Demonstration and Education Projects

What kinds of grants are there?

- Website: <http://grants.nih.gov>
- Major grant types
 - Research
 - Single project – Research Project Grant (R01)
 - Multi-project (Program Projects)
 - Small Business -- (SBIR)
 - Training and Career Development (K Awards)
 - Conference (R13)

Early career options

- **Career Development Awards (K's)**
 - **K08: Mentored Clinical Scientist**
 - Health Professional Doctoral Degree
 - Not necessarily clinical research
 - **K22: Career Transition Award**
 - **K23: Mentored Patient-Oriented Research**
 - Analogous to K08
 - Develop skills for patient-oriented research
 - **K24: Mid-career Investigator Award in Patient-Oriented Research**

Research Grants

- R01: the basic research grant
 - Single project
 - New and established investigators
 - Majority of NIH grantees
- R21: Exploratory/Developmental Research Grant
 - Early and conceptual stages of development
- P01: program project grant
 - Multi-project
 - Seasoned investigators

Some grants solicited by NHLBI

- Program Announcements
 - Invites grant applications in a specific research area
 - New or expanded interest in an area, or a reminder of an ongoing interest
 - Usually has no \$\$ set aside
 - Reviewers note that a grant is responsive to a particular PA

Request for Application (RFA)

- Announcement describing an Institute initiative in a well-defined scientific area
- Invitation to the field to submit research grant applications for a one-time competition
- Set-aside of funds for a certain number of awards
- Applications generally reviewed within the Institute

Request for Proposal (RFP)

- Identifies a narrowly defined area of specific interest to the Institute
- Takes the form of a contract (U01)
- Currently used for specific projects, (i.e. Cardiothoracic Surgical Network, Pediatric VAD Development Program)
- Highly structured application and negotiation process

Sorting out grant opportunities

- Your mentors and other investigators
- Your business office
- Program staff at NIH
 - Each Institute has a web site with key personnel listed
 - Staff are happy to discuss grant procedures – we're here to help!
- The NIH Guide to Grants and Contracts
 - www.grants.nih.gov/grants/guide
 - Lists special programs for which grants are being sought

Research Project Grant (R01)

- Award to support a discrete circumscribed project
- To be performed by the PI in an area representing the investigator's specific interests and competencies
- R01 is the oldest grant mechanism used by NIH to support health-related research

R01 applications to NHLBI

- \$500K per year limit
- Applications requesting >\$500K require pre-approval of Division Director
- Unless responding to RFA, will be reviewed by CSR Study Section
- Important consideration given to new investigators

Application information

- Electronic forms are on the web site (eRA)
- Various grant categories have a different submission deadline
- R01s are submitted February 1, June 1, and October 1 of each year
- A Short Guide to Grant Preparation
<http://deainfo.nci.nih.gov/EXTRA/EXTD/OCS/gntapp.htm>

New & Early Stage Investigators

- NI: A PI applicant who has not yet competed successfully for a substantial, competing NIH research grant is considered a New Investigator.
- ESI: PI applicant who is a New or First-Time Investigator and is within 10 years of completing his/her terminal research degree or is within 10 years of completing medical residency

Current paylines in percentile or priority scores - NHLBI

Grant Program	Percentile Priority Score
R01, R21	15.0
R01 NI	20.0
R01 ESI	25.0

Current paylines in percentile or priority scores - NHLBI

Grant Program	Description	Score
P01	Program Project: Grant	150
P01 Subproject	Program Project: Subproject	170
SBIR	Small Business Innovation	190
STTR	Small Bus. Tech. Transfer	140
K awards	Career Development	170
T awards	Institutional NRSA Training	170
F31, F32	Pre and Post-doctoral NRSA	40.0

NHLBI Funding of Type 1 R01s from New Investigators

	ESI	Non-ESI
Payline: 5 percentile points above the regular R01 payline	Yes	Yes
Expedited Review: to resolve summary statement if >5 but ≤10 percentile points above the regular R01 payline	Yes	No
Duration of Grants	Funded for all years recommended	Likely reduced to 4 years

Additional NI conditions

- Remains eligible as an NI despite funding of these types of awards:
 - All Fellowships (F awards)
 - All career awards (K awards)
 - Small Grant (R03)
 - Academic Research Enhancement Award (R15)
 - Exploratory/Developmental Grant (R21)
 - Clinical Trial Planning Grant (R34)
 - Dissertation Award (R36)
 - Small Business Technology Transfer Grant-Phase I (R41)
 - Small Business Innovation Research Grant-Phase I (R43)
 - NIH High Priority, Short-Term Project Award (R56)
 - Competitive Research Pilot Projects (SC2, SC3)

Additional NI advantages

- For NI's first competitive renewal (Type 2) of his/her R01:
- The NHLBI payline will remain **5 percentile points** above the regular R01 payline for FY 2009
- Cannot be a PI on another R01 or other major grant
- Must be Associate Prof or lower rank
- Applies to both ESI and Non-ESI

Multiple Principal Investigators

- This policy offers the potential of “team science” efforts. The multiple Principal Investigator (PI) model will supplement, and not replace, the traditional single Principal Investigator (PI) model.
- The multiple-PI option can encourage multidisciplinary projects. An example would be a jointly-directed obesity research effort directed at a series of phenotypes to investigate the primary effect of specific alleles and the functional consequences of these variants. In this example, experts in imaging, clinical obesity research and metabolism might work together as equal partners in the direction of the project.
- When multiple PIs are proposed, NIH requires identification of one PI who will be designated as the "Contact PI." This person will be responsible for communication between the PIs and the NIH. Serving as Contact PI confers no special authorities or responsibilities within the project team.

Study the NHLBI Web Site



National Heart Lung and Blood Institute

- **Funding & Research Information**

<http://www.nhlbi.nih.gov/funding/index.htm>