

# Department of Health and Human Services

## Part 1. Overview Information

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### Participating Organization(s)

National Institutes of Health ([NIH \(http://www.nih.gov\)](http://www.nih.gov))

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### Components of Participating Organizations

National Cancer Institute ([NCI \(http://www.nci.nih.gov/\)](http://www.nci.nih.gov/))

National Eye Institute ( [NEI \(http://www.nei.nih.gov/\)](http://www.nei.nih.gov/) )

National Heart, Lung, and Blood Institute ([NHLBI \(http://www.nhlbi.nih.gov\)](http://www.nhlbi.nih.gov))

National Human Genome Research Institute ([NHGRI \(https://www.genome.gov/\)](https://www.genome.gov/))

National Institute on Aging ([NIA \(http://www.nia.nih.gov\)](http://www.nia.nih.gov))

National Institute on Alcohol Abuse and Alcoholism ([NIAAA \(http://www.niaaa.nih.gov\)](http://www.niaaa.nih.gov))

National Institute of Allergy and Infectious Diseases ([NIAID \(http://www.niaid.nih.gov\)](http://www.niaid.nih.gov))

National Institute of Arthritis and Musculoskeletal and Skin Diseases ([NIAMS \(http://www.niams.nih.gov\)](http://www.niams.nih.gov))

National Institute of Biomedical Imaging and Bioengineering ([NIBIB \(http://www.nibib.nih.gov\)](http://www.nibib.nih.gov))

Eunice Kennedy Shriver National Institute of Child Health and Human Development ([NICHD \(http://www.nichd.nih.gov\)](http://www.nichd.nih.gov))

National Institute of Dental and Craniofacial Research ([NIDCR \(http://www.nidcr.nih.gov\)](http://www.nidcr.nih.gov))

National Institute on Deafness and Other Communication Disorders ([NIDCD \(https://www.nidcd.nih.gov/\)](https://www.nidcd.nih.gov/))

National Institute of Diabetes and Digestive and Kidney Diseases ([NIDDK \(http://www.niddk.nih.gov\)](http://www.niddk.nih.gov))

National Institute on Drug Abuse ([NIDA \(http://www.nida.nih.gov\)](http://www.nida.nih.gov))

National Institute of Environmental Health Sciences ([NIEHS \(http://www.niehs.nih.gov\)](http://www.niehs.nih.gov))

National Institute of General Medical Sciences ([NIGMS \(http://www.nigms.nih.gov\)](http://www.nigms.nih.gov))

National Institute of Mental Health ([NIMH \(http://www.nimh.nih.gov\)](http://www.nimh.nih.gov))

National Institute of Neurological Disorders and Stroke ([NINDS \(http://www.ninds.nih.gov\)](http://www.ninds.nih.gov))

National Institute of Nursing Research ([NINR \(http://www.ninr.nih.gov\)](http://www.ninr.nih.gov))

National Institute on Minority Health and Health Disparities ([NIMHD \(http://www.nimhd.nih.gov/\)](http://www.nimhd.nih.gov/))

National Library of Medicine ([NLM \(http://www.nlm.nih.gov\)](http://www.nlm.nih.gov))

National Center for Complementary and Integrative Health ([NCCIH \(http://www.nccam.nih.gov\)](http://www.nccam.nih.gov))

Division of Program Coordination, Planning and Strategic Initiatives, Office of Research Infrastructure Programs ([ORIP \(http://dpcpsi.nih.gov/orip/index.aspx\)](http://dpcpsi.nih.gov/orip/index.aspx))

Note: Not all NIH Institutes and Centers (ICs) participate in Parent Announcements. Applicants should carefully note which ICs participate in this announcement and view their respective areas of research interest at the [R01 IC-Specific Scientific Interests and Contact \(https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html\)](https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html) website.

ICs that do not participate in this announcement will not consider applications for funding.

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### Funding Opportunity Title

**NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)**

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### Activity Code

[R01 \(//grants.nih.gov/grants/funding/ac\\_search\\_results.htm?text\\_curr=r01&Search.x=0&Search.y=0&Search\\_Type=Activity\)](https://grants.nih.gov/grants/funding/ac_search_results.htm?text_curr=r01&Search.x=0&Search.y=0&Search_Type=Activity) Research Project Grant

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## Announcement Type

Reissue of [PA-18-484](https://grants.nih.gov/grants/guide/pa-files/PA-18-484.html) (<https://grants.nih.gov/grants/guide/pa-files/PA-18-484.html>)

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## Related Notices

- **November 12, 2019** - Notice of Special Interest on Neurobehavioral Mechanisms of Social Isolation and Alcohol Use Disorder (AUD). See Notice [NOT-AA-19-031](https://grants.nih.gov/grants/guide/notice-files/NOT-AA-19-031.html) (<https://grants.nih.gov/grants/guide/notice-files/NOT-AA-19-031.html>).
- **November 12, 2019** - Notice of Special Interest: Advancing Research for Tickborne Diseases (TBDs). See Notice [NOT-AI-20-005](/grants/guide/notice-files/NOT-AI-20-005.html) (</grants/guide/notice-files/NOT-AI-20-005.html>).
- **November 05, 2019** - Notice of Special Interest (NOSI): Biophysical and Biomechanical Aspects of Embryonic Development (R01). See Notice [NOT-HD-19-037](/grants/guide/notice-files/NOT-HD-19-037.html) (</grants/guide/notice-files/NOT-HD-19-037.html>).
- **October 29, 2019** - Notice of Special Interest (NOSI) of NIDCR in Supporting Discovery, Characterization, and Mechanistic Study of Genetic Variants Underlying Dental, Oral, and Craniofacial Diseases and Conditions. See Notice [NOT-DE-19-016](/grants/guide/notice-files/NOT-DE-19-016.html) (</grants/guide/notice-files/NOT-DE-19-016.html>).
- **October 22, 2019** - Notice of Special Interest (NOSI): Geospatial Approaches in Cancer Control and Population Sciences. See Notice [NOT-CA-20-004](/grants/guide/notice-files/NOT-CA-20-004.html) (</grants/guide/notice-files/NOT-CA-20-004.html>).
- **October 22, 2019** - Notice of Special Interest: Promoting research opportunities on HIV/AIDS in NIAMS. See Notice [NOT-AR-20-005](/grants/guide/notice-files/NOT-AR-20-005.html) (</grants/guide/notice-files/NOT-AR-20-005.html>).
- **October 09, 2019** - Notice of Special Interest (NOSI): Epidemiologic Studies to Characterize Cardiovascular Health and its Predictors and Trajectories in Diverse Groups of Children. See Notice [NOT-HL-19-711](/grants/guide/notice-files/NOT-HL-19-711.html) (</grants/guide/notice-files/NOT-HL-19-711.html>).
- **October 09, 2019** - Notice of Special Interest: Understanding the biology of iodine nutrition, assessment, and outcomes in women, infants, and children (R01, R21, R03). See Notice [NOT-HD-19-028](/grants/guide/notice-files/NOT-HD-19-028.html) (</grants/guide/notice-files/NOT-HD-19-028.html>).
- **October 09, 2019** - Notice of Special Interest: Research on Emergency Medical Services for Children (EMSC). See Notice [NOT-HD-19-022](/grants/guide/notice-files/NOT-HD-19-022.html) (</grants/guide/notice-files/NOT-HD-19-022.html>).
- **October 09, 2019** - Notice of Special Interest (NOSI): Use of Biological Information to Understand How the Interplay of Environmental Exposures and Genes Influences Cancer Risk. See Notice [NOT-CA-20-002](/grants/guide/notice-files/NOT-CA-20-002.html) (</grants/guide/notice-files/NOT-CA-20-002.html>).
- **October 8, 2019** - Consolidated Notice on NCCIH Clinical Trials Policies. See Notice [NOT-AT-20-001](/grants/guide/notice-files/NOT-AT-20-001.html) (</grants/guide/notice-files/NOT-AT-20-001.html>).
- **September 25, 2019** - Notice of Special Interest: Nutrigenetics and Nutrigenomics Approaches for Nutrition Research. See Notice [NOT-DK-19-019](https://grants.nih.gov/grants/guide/notice-files/NOT-DK-19-019.html) ([/grants.nih.gov/grants/guide/notice-files/NOT-DK-19-019.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DK-19-019.html)).
- **September 20, 2019** - Notice of Special Interest: Research to Advance the Understanding and Management of the Multiple Organ Dysfunction Syndrome in Children (R01, R21). See Notice [NOT-HD-19-023](/grants/guide/notice-files/NOT-HD-19-023.html) (</grants/guide/notice-files/NOT-HD-19-023.html>).
- **September 20, 2019** - Notice of Special Interest: Advancing the Understanding, Prevention, and Management of Infections Transmitted from Women to their Infants. See Notice [NOT-HD-19-021](/grants/guide/notice-files/NOT-HD-19-021.html) (</grants/guide/notice-files/NOT-HD-19-021.html>).
- **September 4, 2019** - Notice of Special Interest: High-Priority Research Topics for PA-19-053 and PA-19-056. See Notice [NOT-AG-19-037](/grants/guide/notice-files/NOT-AG-19-037.html) (</grants/guide/notice-files/NOT-AG-19-037.html>).
- **September 4, 2019** - Notice of Special Interest: Mechanisms Underlying the Contribution of Sleep Disturbances to Pain. See Notice [NOT-HD-19-020](https://grants.nih.gov/grants/guide/notice-files/NOT-HD-19-020.html) ([/grants.nih.gov/grants/guide/notice-files/NOT-HD-19-020.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HD-19-020.html)).
- **September 4, 2019** - Notice of Special Interest: Research to Improve Pre-Pregnancy Care and Enhance Healthy Birth Intervals. See Notice [NOT-HD-19-019](https://grants.nih.gov/grants/guide/notice-files/NOT-HD-19-019.html) ([/grants.nih.gov/grants/guide/notice-files/NOT-HD-19-019.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HD-19-019.html)).
- **August 29, 2019** - Notice of Special Interest in Ultrasound and Optics-based Devices for Trauma Care.

- See Notice [NOT-EB-19-016](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-016.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-EB-19-016.html](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-016.html)).
- **August 29, 2019** - Notice of Special Interest in Radiation Monitoring for Trauma Care. See Notice [NOT-EB-19-017](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-017.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-EB-19-017.html](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-017.html)).
  - **August 29, 2019** - Notice of Special Interest in X-ray-based Devices for Trauma Care. See Notice [NOT-EB-19-015](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-015.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-EB-19-015.html](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-015.html)).
  - **August 29, 2019** - Notice of Special Interest (NOSI): Epidemiology of Drug Abuse. See Notice [NOT-DA-19-066](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-066.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-DA-19-066.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-066.html)).
  - **August 29, 2019** - Notice of Special Interest in Physiological Monitoring and Point of Care Technologies for Trauma Care. See Notice [NOT-EB-19-018](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-018.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-EB-19-018.html](https://grants.nih.gov/grants/guide/notice-files/NOT-EB-19-018.html)).
  - **August 23, 2019** - Clarifying Competing Application Instructions and Notice of Publication of Frequently Asked Questions (FAQs) Regarding Proposed Human Fetal Tissue Research. See Notice [NOT-OD-19-137](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-137.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-OD-19-137.html](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-137.html)).
  - **July 26, 2019** - Changes to NIH Requirements Regarding Proposed Human Fetal Tissue Research. See Notice [NOT-OD-19-128](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-128.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-OD-19-128.html](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-128.html)).
  - **August 15, 2019** - Notice of Special Interest (NOSI): IDEA2Health: Innovative Data Evaluation and Analysis to Health (Parent R01 Clinical Trial Not Allowed). See Notice [NOT-HL-19-712](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-712.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-HL-19-712.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-712.html)).
  - **August 14, 2019** - Notice of Special Interest (NOSI): Public Health Research on Cannabis. See Notice [NOT-DA-19-065](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-065.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-DA-19-065.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-065.html)).
  - **August 8, 2019** - Notice of Special Interest: NCI's Research Interests to Improve Interprofessional Teamwork and Coordination During Cancer Diagnosis and Treatment. See Notice [NOT-CA-19-059](https://grants.nih.gov/grants/guide/notice-files/NOT-CA-19-059.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-CA-19-059.html](https://grants.nih.gov/grants/guide/notice-files/NOT-CA-19-059.html)).
  - **July 31, 2019** - Notice of NIAAA Data-Sharing Policy for Human Subjects Grants Research Funded by the National Institute on Alcohol Abuse and Alcoholism (NIAAA) [2nd Revision]. See Notice [NOT-AA-19-020](https://grants.nih.gov/grants/guide/notice-files/NOT-AA-19-020.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-AA-19-020.html](https://grants.nih.gov/grants/guide/notice-files/NOT-AA-19-020.html)).
  - **July 25, 2019** - Consolidated Notice on NIMH Clinical Trials Policies. See Notice [NOT-MH-19-031](https://grants.nih.gov/grants/guide/notice-files/NOT-MH-19-031.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-MH-19-031.html](https://grants.nih.gov/grants/guide/notice-files/NOT-MH-19-031.html)).
  - **July 12, 2019** - Notice of Special Interest (NOSI): The Application of Big Data Analytics to Drug Abuse Research. See Notice [NOT-DA-19-041](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-041.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-DA-19-041.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-041.html)).
  - **July 11, 2019** - Notice of Special Interest (NOSI): Health Services and Economic Research on the Treatment of Drug, Alcohol, and Tobacco Use Disorders (R01, R21, R03). See Notice [NOT-DA-19-037](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-037.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-DA-19-037.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-037.html)).
  - **July 11, 2019** - Notice of Special Interest (NOSI): Gene-Environment Interplay in Substance Use Disorders (R01, R21). See Notice [NOT-DA-19-038](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-038.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-DA-19-038.html](https://grants.nih.gov/grants/guide/notice-files/NOT-DA-19-038.html)).
  - **June 3, 2019** - Notice of Special Interest (NOSI): Leveraging existing HIV observational cohorts to study HIV-associated HLBS disorders. See Notice [NOT-HL-19-705](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-705.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-HL-19-705.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-705.html)).
  - **May 21, 2019** - Notice of Special Interest (NOSI): Understanding Factors in Infancy and Early Childhood (Birth to 24 months) That Influence Obesity Development. See Notice [NOT-HL-19-695](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-695.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-HL-19-695.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-695.html)).
  - **May 13, 2019** - NIGMS-Managed HIV/AIDS Research Portfolio Transitioning to NIAID. See Notice [NOT-GM-19-039](https://grants.nih.gov/grants/guide/notice-files/NOT-GM-19-039.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-GM-19-039.html](https://grants.nih.gov/grants/guide/notice-files/NOT-GM-19-039.html)).
  - **April 23, 2019** - Notice of Special Interest to Highlight High Priority Research Opportunities on Suicide Prevention Crisis Services. See Notice [NOT-MH-19-025](https://grants.nih.gov/grants/guide/notice-files/NOT-MH-19-025.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-MH-19-025.html](https://grants.nih.gov/grants/guide/notice-files/NOT-MH-19-025.html)).
  - **March 14, 2019** - Notice of Special Interest: Development of Cryogenic or Other Long-term Preservation and Revival Methods for Drosophila and Zebrafish Genetic Stocks. See Notice [NOT-OD-19-089](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-089.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-OD-19-089.html](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-19-089.html)).
  - **March 14, 2019** - Notice of Special Interest: SEARCH: Stimulating Exploratory Research on HIV/AIDS Contribution to Heart, Lung, Blood and Sleep Comorbidities (R01 - Clinical Trial Not Allowed). See Notice [NOT-HL-19-677](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-677.html) ([//grants.nih.gov/grants/guide/notice-files/NOT-HL-19-677.html](https://grants.nih.gov/grants/guide/notice-files/NOT-HL-19-677.html)).

- **January 7, 2019** - Notice of Special Interest in Understanding Factors in Infancy and Early Childhood (Birth to 24 months) That Influence Obesity Development. See Notice [NOT-DK-19-007 \(//grants.nih.gov/grants/guide/notice-files/NOT-DK-19-007.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-DK-19-007.html).
- **November 26, 2018** - NIH & AHRQ Announce Upcoming Updates to Application Instructions and Review Criteria for Research Grant Applications. See Notice [NOT-OD-18-228 \(//grants.nih.gov/grants/guide/notice-files/NOT-OD-18-228.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-18-228.html).
- **November 16, 2018** - Notice of NEI Participation in PAR-19-056 . See Notice [NOT-EY-19-005 \(//grants.nih.gov/grants/guide/notice-files/NOT-EY-19-005.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-EY-19-005.html).
- **November 15, 2018** - Notice of NIDCD participation effective immediately in PA-19-056. See Notice [NOT-DC-19-002 \(https://grants.nih.gov/grants/guide/notice-files/NOT-DC-19-002.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-DC-19-002.html).

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## Funding Opportunity Announcement (FOA) Number

**PA-19-056**

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## Companion Funding Opportunity

[PA-19-091 \(https://grants.nih.gov/grants/guide/pa-files/PA-19-091.html\)](https://grants.nih.gov/grants/guide/pa-files/PA-19-091.html), [R01 \(https://grants.nih.gov/grants/funding/ac\\_search\\_results.htm?text\\_curr=r01&Search.x=0&Search.y=0&Search\\_Type=Activity\)](https://grants.nih.gov/grants/funding/ac_search_results.htm?text_curr=r01&Search.x=0&Search.y=0&Search_Type=Activity) Research Project Grant

[PA-19-055 \(https://grants.nih.gov/grants/guide/pa-files/pa-19-055.html\)](https://grants.nih.gov/grants/guide/pa-files/pa-19-055.html) - Parent R01 Clinical Trial Required

Check Components of Participating Organizations and Related Notices for restrictions.

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## Number of Applications

See [Section III. 3. Additional Information on Eligibility](#).

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## Catalog of Federal Domestic Assistance (CFDA) Number(s)

93.213, 93.393, 93.394, 93.95, 93.396, 93.399, 93.172,93.173 93.233, 93.840, 93.837, 93.838, 93.839, 93.866, 93.273, 93.855, 93.846, 93.286, 93.865, 93.279, 93.121, 93.847, 93.113, 93.859, 93.242, 93.307, 93.853, 93.361, 93.879, 93.351, 93.867

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## Funding Opportunity Purpose

The NIH Research Project Grant supports a discrete, specified, circumscribed project in areas representing the specific interests and competencies of the investigator(s). The proposed project must be related to the programmatic interests of one or more of the participating NIH Institutes and Centers (ICs) based on their scientific missions.

This Funding Opportunity Announcement does not accept applications proposing clinical trial(s)

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## Key Dates

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### Posted Date

November 5, 2018

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### Open Date (Earliest Submission Date)

January 5, 2019

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**Letter of Intent Due Date(s)**

Not Applicable

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**Application Due Date(s)**

[Standard dates \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11111\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11111) apply, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates.

The first standard application due date for this FOA is February 5, 2019.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**AIDS Application Due Date(s)**

[Standard AIDS dates \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11112\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11112) apply by 5:00 PM local time of applicant organization. All [types of AIDS and AIDS-related applications](#) allowed for this funding opportunity announcement are due on these dates.

The first AIDS application due date for this FOA is May 7, 2019.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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**Scientific Merit Review**

[Standard dates \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11113\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11113) (<http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>) apply

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**Advisory Council Review**

[Standard dates \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11113\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11113) (<http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>) apply

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**Earliest Start Date**

[Standard dates \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11113\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11113) apply

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**Expiration Date**

January 8, 2022

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**Due Dates for E.O. 12372**

Not Applicable

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**Required Application Instructions**

It is critical that applicants follow the Research (R) Instructions in the [SF424 \(R&R\) Application Guide \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=12000\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=12000), except where instructed to do otherwise (in this FOA or in a Notice from the [NIH Guide for Grants and Contracts \(//grants.nih.gov/grants/guide/\)](https://grants.nih.gov/grants/guide/)). Conformance to all requirements (both in the Application Guide and the FOA) is required and strictly enforced. Applicants

must read and follow all application instructions in the Application Guide as well as any program-specific instructions noted in [Section IV](#). When the program-specific instructions deviate from those in the Application Guide, follow the program-specific instructions. **Applications that do not comply with these instructions may be delayed or not accepted for review.**

There are several options available to submit your application through Grants.gov to NIH and Department of Health and Human Services partners. You **must** use one of these submission options to access the application forms for this opportunity.

1. Use the NIH ASSIST system to prepare, submit and track your application online.

[Apply Online Using ASSIST](#)

2. Use an institutional system-to-system (S2S) solution to prepare and submit your application to Grants.gov and [eRA Commons \(http://public.era.nih.gov/commons/\)](http://public.era.nih.gov/commons/) to track your application. Check with your institutional officials regarding availability.
3. Use [Grants.gov \(http://www.grants.gov/web/grants/applicants/download-application-package.html#search=true&oppNum=PA-19-056\)](http://www.grants.gov/web/grants/applicants/download-application-package.html#search=true&oppNum=PA-19-056) Workspace to prepare and submit your application and [eRA Commons \(http://public.era.nih.gov/commons/\)](http://public.era.nih.gov/commons/) to track your application.

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## Part 2. Full Text of Announcement

### Section I. Funding Opportunity Description

The NIH Research Project Grant supports a discrete, specified, circumscribed project in scientific areas that represent the investigators' specific interests and competencies and that fall within the mission of the participating NIH Institutes and Centers (ICs). The R01 is the original, and historically the oldest, grant mechanism used by the NIH to support health-related research and development.

Research grant applications are assigned to participating ICs based on receipt and referral guidelines and applications may be assigned to multiple participating ICs with related research interests.

Applicants are encouraged to identify a participating IC that supports their area of research via the [R01 IC-Specific Scientific Interests and Contact \(https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html\)](https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html) website and contact Scientific/Research staff from relevant ICs to inquire about their interest in supporting the proposed research project.

This Funding Opportunity Announcement does not accept applications proposing clinical trial(s).

For specific information about the mission of each NIH IC, visit the [List of NIH Institutes, Centers, and Offices \(http://www.nih.gov/institutes-nih/list-nih-institutes-centers-offices\)](http://www.nih.gov/institutes-nih/list-nih-institutes-centers-offices) website.

See [Section VIII. Other Information](#) for award authorities and regulations.

## Section II. Award Information

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### Funding Instrument

Grant: A support mechanism providing money, property, or both to an eligible entity to carry out an approved project or activity.

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### Application Types Allowed

New  
Renewal  
Resubmission  
Revision

The [OER Glossary \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11116\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11116) and the SF424 (R&R) Application Guide provide details on these application types.

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### Clinical Trial?

Not Allowed: Only accepting applications that do not propose clinical trials

[Need help determining whether you are doing a clinical trial? \(https://grants.nih.gov/grants/guide/url\\_redirect.htm?id=82370\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=82370)

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### Funds Available and Anticipated Number of Awards

The number of awards is contingent upon NIH appropriations and the submission of a sufficient number of meritorious applications.

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### Award Budget

Application budgets are not limited but need to reflect the actual needs of the proposed project.

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### Award Project Period

The scope of the proposed project should determine the project period. The maximum project period is 5 years.

NIH grants policies as described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11120\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11120) will apply to the applications submitted and awards made from this FOA.

## Section III. Eligibility Information

### 1. Eligible Applicants

#### Eligible Organizations

##### Higher Education Institutions

- Public/State Controlled Institutions of Higher Education
- Private Institutions of Higher Education

The following types of Higher Education Institutions are always encouraged to apply for NIH support as Public or Private Institutions of Higher Education:

- Hispanic-serving Institutions
- Historically Black Colleges and Universities (HBCUs)

- Tribally Controlled Colleges and Universities (TCCUs)
- Alaska Native and Native Hawaiian Serving Institutions
- Asian American Native American Pacific Islander Serving Institutions (AANAPISIs)

#### Nonprofits Other Than Institutions of Higher Education

- Nonprofits with 501(c)(3) IRS Status (Other than Institutions of Higher Education)
- Nonprofits without 501(c)(3) IRS Status (Other than Institutions of Higher Education)

#### For-Profit Organizations

- Small Businesses
- For-Profit Organizations (Other than Small Businesses)

#### Governments

- State Governments
- County Governments
- City or Township Governments
- Special District Governments
- Indian/Native American Tribal Governments (Federally Recognized)
- Indian/Native American Tribal Governments (Other than Federally Recognized)
- Eligible Agencies of the Federal Government
- U.S. Territory or Possession

#### Other

- Independent School Districts
- Public Housing Authorities/Indian Housing Authorities
- Native American Tribal Organizations (other than Federally recognized tribal governments)
- Faith-based or Community-based Organizations
- Regional Organizations
- Non-domestic (non-U.S.) Entities (Foreign Institutions)

### Foreign Institutions

Non-domestic (non-U.S.) Entities (Foreign Institutions) **are** eligible to apply.

Non-domestic (non-U.S.) components of U.S. Organizations **are** eligible to apply.

Foreign components, as [defined in the NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11118\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11118), **are** allowed.

### Required Registrations

#### Applicant Organizations

Applicant organizations must complete and maintain the following registrations as described in the SF 424 (R&R) Application Guide to be eligible to apply for or receive an award. All registrations must be completed prior to the application being submitted. Registration can take 6 weeks or more, so applicants should begin the registration process as soon as possible. The [NIH Policy on Late Submission of Grant Applications \(//grants.nih.gov/grants/guide/notice-files/NOT-OD-15-039.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-039.html) states that failure to complete registrations in advance of a due date is not a valid reason for a late submission.

- [Dun and Bradstreet Universal Numbering System \(DUNS\) \(http://fedgov.dnb.com/webform\)](http://fedgov.dnb.com/webform) - All registrations require that applicants be issued a DUNS number. After obtaining a DUNS number, applicants can begin both SAM and eRA Commons registrations. The same DUNS number must be used for all registrations, as well as on the grant application.
- [System for Award Management \(SAM\) \(https://www.sam.gov/portal/public/SAM/\)](https://www.sam.gov/portal/public/SAM/) - Applicants must complete and maintain an active registration, **which requires renewal at least annually**. The renewal process may require as much time as the initial registration. SAM registration includes the assignment of a Commercial and Government Entity (CAGE) Code for domestic organizations which have not already been assigned a CAGE Code.
  - [NATO Commercial and Government Entity \(NCAGE\) Code \(//grants.nih.gov/grants/guide](https://grants.nih.gov/grants/guide)



[/url\\_redirect.htm?id=11176](#)) – Foreign organizations must obtain an NCAGE code (in lieu of a CAGE code) in order to register in SAM.

- [eRA Commons \(/grants.nih.gov/grants/guide/url\\_redirect.htm?id=11123\)](#) - Applicants must have an active DUNS number to register in eRA Commons. Organizations can register with the eRA Commons as they are working through their SAM or Grants.gov registration, but all registrations must be in place by time of submission. eRA Commons requires organizations to identify at least one Signing Official (SO) and at least one Program Director/Principal Investigator (PD/PI) account in order to submit an application.
- [Grants.gov \(/grants.nih.gov/grants/guide/url\\_redirect.htm?id=82300\)](#) – Applicants must have an active DUNS number and SAM registration in order to complete the Grants.gov registration.

### **Program Directors/Principal Investigators (PD(s)/PI(s))**

All PD(s)/PI(s) must have an eRA Commons account. PD(s)/PI(s) should work with their organizational officials to either create a new account or to affiliate their existing account with the applicant organization in eRA Commons. If the PD/PI is also the organizational Signing Official, they must have two distinct eRA Commons accounts, one for each role. Obtaining an eRA Commons account can take up to 2 weeks.

### **Eligible Individuals (Program Director/Principal Investigator)**

Any individual(s) with the skills, knowledge, and resources necessary to carry out the proposed research as the Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) is invited to work with his/her organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support.

For institutions/organizations proposing multiple PDs/Pis, visit the Multiple Program Director/Principal Investigator Policy and submission details in the Senior/Key Person Profile (Expanded) Component of the SF424 (R&R) Application Guide.

## **2. Cost Sharing**

This FOA does not require cost sharing as defined in the [NIH Grants Policy Statement. \(/grants.nih.gov/grants/guide/url\\_redirect.htm?id=11126\)](#)

## **3. Additional Information on Eligibility**

### **Number of Applications**

Applicant organizations may submit more than one application, provided that each application is scientifically distinct.

The NIH will not accept duplicate or highly overlapping applications under review at the same time. This means that the NIH will not accept:

- A new (A0) application that is submitted before issuance of the summary statement from the review of an overlapping new (A0) or resubmission (A1) application.
- A resubmission (A1) application that is submitted before issuance of the summary statement from the review of the previous new (A0) application.
- An application that has substantial overlap with another application pending appeal of initial peer review (see [NOT-OD-11-101 \(/grants.nih.gov/grants/guide/notice-files/NOT-OD-11-101.html\)](#)).

## **Section IV. Application and Submission Information**

### **1. Requesting an Application Package**

The application forms package specific to this opportunity must be accessed through ASSIST, Grants.gov Workspace or an institutional system-to-system solution. Links to apply using ASSIST or Grants.gov Workspace are available in [Part 1](#) of this FOA. See your administrative office for instructions if you plan to use an institutional system-to-system solution.

## 2. Content and Form of Application Submission

It is critical that applicants follow the Research (R) Instructions in the [SF424 \(R&R\) Application Guide \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=12000\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=12000), except where instructed in this funding opportunity announcement to do otherwise. Conformance to the requirements in the Application Guide is required and strictly enforced. Applications that are out of compliance with these instructions may be delayed or not accepted for review.

### Page Limitations

All page limitations described in the SF424 Application Guide and the [Table of Page Limits \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11133\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11133) must be followed.

### Instructions for Application Submission

The following section supplements the instructions found in the SF424 (R&R) Application Guide and should be used for preparing an application to this FOA.

#### SF424(R&R) Cover

All instructions in the SF424 (R&R) Application Guide must be followed.

#### SF424(R&R) Project/Performance Site Locations

All instructions in the SF424 (R&R) Application Guide must be followed.

#### SF424(R&R) Other Project Information

All instructions in the SF424 (R&R) Application Guide must be followed.

#### SF424(R&R) Senior/Key Person Profile

All instructions in the SF424 (R&R) Application Guide must be followed.

#### R&R or Modular Budget

All instructions in the SF424 (R&R) Application Guide must be followed.

#### R&R Subaward Budget

All instructions in the SF424 (R&R) Application Guide must be followed.

#### PHS 398 Cover Page Supplement

All instructions in the SF424 (R&R) Application Guide must be followed.

#### PHS 398 Research Plan

All instructions in the SF424 (R&R) Application Guide must be followed, with the following additional instructions:

**Resource Sharing Plan:** Individuals are required to comply with the instructions for the Resource Sharing Plans as provided in the SF424 (R&R) Application Guide

#### Appendix:

Only limited Appendix materials are allowed. Follow all instructions for the Appendix as described in the SF424 (R&R) Application Guide.

#### PHS Human Subjects and Clinical Trials Information

When involving NIH-defined human subjects research, clinical research, and/or clinical trials (and when applicable, clinical trials research experience) follow all instructions for the PHS Human Subjects and Clinical Trials Information form in the SF424 (R&R) Application Guide, with the following additional instructions:

If you answered "Yes" to the question "Are Human Subjects Involved?" on the R&R Other Project Information form, you must include at least one human subjects study record using the **Study Record: PHS Human Subjects and Clinical Trials Information** form or **Delayed Onset Study** record.

## Study Record: PHS Human Subjects and Clinical Trials Information

All instructions in the SF424 (R&R) Application Guide must be followed.

### Delayed Onset Study

Note: [Delayed onset \(https://grants.nih.gov/grants/glossary.htm#DelayedOnsetHumanSubjectStudy\)](https://grants.nih.gov/grants/glossary.htm#DelayedOnsetHumanSubjectStudy) does NOT apply to a study that can be described but will not start immediately (i.e., delayed start).

All instructions in the SF424 (R&R) Application Guide must be followed.

### PHS Assignment Request Form

All instructions in the SF424 (R&R) Application Guide must be followed.

### Foreign Institutions

Foreign (non-U.S.) institutions must follow policies described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11137\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11137), and procedures for foreign institutions.

## 3. Unique Entity Identifier and System for Award Management (SAM)

See Part 1. Section III.1 for information regarding the requirement for obtaining a unique entity identifier and for completing and maintaining active registrations in System for Award Management (SAM), NATO Commercial and Government Entity (NCAGE) Code (if applicable), eRA Commons, and Grants.gov

## 4. Submission Dates and Times

[Part I. Overview Information](#) contains information about Key Dates and times. Applicants are encouraged to submit applications before the due date to ensure they have time to make any application corrections that might be necessary for successful submission. When a submission date falls on a weekend or [Federal holiday \(https://grants.nih.gov/grants/guide/url\\_redirect.htm?id=82380\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=82380), the application deadline is automatically extended to the next business day.

Organizations must submit applications to [Grants.gov \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11128\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11128) (the online portal to find and apply for grants across all Federal agencies). Applicants must then complete the submission process by tracking the status of the application in the [eRA Commons \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11123\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11123), NIH's electronic system for grants administration. NIH and Grants.gov systems check the application against many of the application instructions upon submission. Errors must be corrected and a changed/corrected application must be submitted to Grants.gov on or before the application due date and time. If a Changed/Corrected application is submitted after the deadline, the application will be considered late. Applications that miss the due date and time are subjected to the NIH Policy on Late Application Submission.

**Applicants are responsible for viewing their application before the due date in the eRA Commons to ensure accurate and successful submission.**

Information on the submission process and a definition of on-time submission are provided in the SF424 (R&R) Application Guide.

## 5. Intergovernmental Review (E.O. 12372)

This initiative is not subject to [intergovernmental review. \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11142\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11142)

## 6. Funding Restrictions

All NIH awards are subject to the terms and conditions, cost principles, and other considerations

described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11120\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11120).

Pre-award costs are allowable only as described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11143\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11143).

## 7. Other Submission Requirements and Information

Applications must be submitted electronically following the instructions described in the SF424 (R&R) Application Guide. Paper applications will not be accepted.

**Applicants must complete all required registrations before the application due date.** [Section III. Eligibility Information](#) contains information about registration.

For assistance with your electronic application or for more information on the electronic submission process, visit [How to Apply – Application Guide \(https://grants.nih.gov/grants/how-to-apply-application-guide.html\)](https://grants.nih.gov/grants/how-to-apply-application-guide.html). If you encounter a system issue beyond your control that threatens your ability to complete the submission process on-time, you must follow the [Dealing with System Issues \(https://grants.nih.gov/grants/how-to-apply-application-guide/due-dates-and-submission-policies/dealing-with-system-issues.htm\)](https://grants.nih.gov/grants/how-to-apply-application-guide/due-dates-and-submission-policies/dealing-with-system-issues.htm) guidance. For assistance with application submission, contact the Application Submission Contacts in [Section VII](#).

### Important reminders:

All PD(s)/PI(s) must include their eRA Commons ID in the Credential field of the Senior/Key Person Profile Component of the SF424(R&R) Application Package. Failure to register in the Commons and to include a valid PD/PI Commons ID in the credential field will prevent the successful submission of an electronic application to NIH. See [Section III](#) of this FOA for information on registration requirements.

The applicant organization must ensure that the DUNS number it provides on the application is the same number used in the organization's profile in the eRA Commons and for the System for Award Management. Additional information may be found in the SF424 (R&R) Application Guide.

See [more tips \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11146\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11146) for avoiding common errors.

Upon receipt, applications will be evaluated for completeness and compliance with application instructions by the Center for Scientific Review, NIH. Applications that are incomplete or non-compliant will not be reviewed.

### Requests of \$500,000 or more for direct costs in any year

Applicants requesting \$500,000 or more in direct costs in any year (excluding consortium F&A) must contact a [Scientific/ Research Contact](#) at least 6 weeks before submitting the application and follow the Policy on the Acceptance for Review of Unsolicited Applications that Request \$500,000 or More in Direct Costs as described in the SF424 (R&R) Application Guide.

### Post Submission Materials

Applicants are required to follow the instructions for post-submission materials, as described in [the policy \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=82299\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=82299). Any instructions provided here are in addition to the instructions in the policy.

## Section V. Application Review Information

**NEW Important Update:** See [NOT-OD-18-228 \(/grants/guide/notice-files/NOT-OD-18-228.html\)](https://grants.nih.gov/grants/guide/notice-files/NOT-OD-18-228.html) for updated review language for due dates on or after January 25, 2019.

### 1. Criteria

Only the review criteria described below will be considered in the review process.

Applications submitted to the NIH in support of the [NIH mission \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11149\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11149) are evaluated for scientific and technical merit through the NIH peer review system.

## Overall Impact

Reviewers will provide an overall impact score to reflect their assessment of the likelihood for the project to exert a sustained, powerful influence on the research field(s) involved, in consideration of the following review criteria and additional review criteria (as applicable for the project proposed).

## Scored Review Criteria

Reviewers will consider each of the review criteria below in the determination of scientific merit, and give a separate score for each. An application does not need to be strong in all categories to be judged likely to have major scientific impact. For example, a project that by its nature is not innovative may be essential to advance a field.

### Significance

Does the project address an important problem or a critical barrier to progress in the field? Is the prior research that serves as the key support for the proposed project rigorous? If the aims of the project are achieved, how will scientific knowledge, technical capability, and/or clinical practice be improved? How will successful completion of the aims change the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field?

### Investigator(s)

Are the PD(s)/PI(s), collaborators, and other researchers well suited to the project? If Early Stage Investigators or those in the early stages of independent careers, do they have appropriate experience and training? If established, have they demonstrated an ongoing record of accomplishments that have advanced their field(s)? If the project is collaborative or multi-PD/PI, do the investigators have complementary and integrated expertise; are their leadership approach, governance and organizational structure appropriate for the project?

### Innovation

Does the application challenge and seek to shift current research or clinical practice paradigms by utilizing novel theoretical concepts, approaches or methodologies, instrumentation, or interventions? Are the concepts, approaches or methodologies, instrumentation, or interventions novel to one field of research or novel in a broad sense? Is a refinement, improvement, or new application of theoretical concepts, approaches or methodologies, instrumentation, or interventions proposed?

### Approach

Are the overall strategy, methodology, and analyses well-reasoned and appropriate to accomplish the specific aims of the project? Have the investigators included plans to address weaknesses in the rigor of prior research that serves as the key support for the proposed project? Have the investigators presented strategies to ensure a robust and unbiased approach, as appropriate for the work proposed? Are potential problems, alternative strategies, and benchmarks for success presented? If the project is in the early stages of development, will the strategy establish feasibility and will particularly risky aspects be managed? Have the investigators presented adequate plans to address relevant biological variables, such as sex, for studies in vertebrate animals or human subjects?

If the project involves human subjects and/or NIH-defined clinical research, are the plans to address

- 1) the protection of human subjects from research risks, and
- 2) inclusion (or exclusion) of individuals on the basis of sex/gender, race, and ethnicity, as well as the inclusion or exclusion of individuals of all ages (including children and older adults), justified in terms of the scientific goals and research strategy proposed?

## Environment

Will the scientific environment in which the work will be done contribute to the probability of success? Are the institutional support, equipment and other physical resources available to the investigators adequate for the project proposed? Will the project benefit from unique features of the scientific environment, subject populations, or collaborative arrangements?

## Additional Review Criteria

As applicable for the project proposed, reviewers will evaluate the following additional items while determining scientific and technical merit, and in providing an overall impact score, but will not give separate scores for these items.

## Protections for Human Subjects

For research that involves human subjects but does not involve one of the categories of research that are exempt under 45 CFR Part 46, the committee will evaluate the justification for involvement of human subjects and the proposed protections from research risk relating to their participation according to the following five review criteria: 1) risk to subjects, 2) adequacy of protection against risks, 3) potential benefits to the subjects and others, 4) importance of the knowledge to be gained, and 5) data and safety monitoring for clinical trials.

For research that involves human subjects and meets the criteria for one or more of the categories of research that are exempt under 45 CFR Part 46, the committee will evaluate: 1) the justification for the exemption, 2) human subjects involvement and characteristics, and 3) sources of materials. For additional information on review of the Human Subjects section, please refer to the [Guidelines for the Review of Human Subjects \(//grants.nih.gov/grants/guide/redirect.htm?id=11175\)](https://grants.nih.gov/grants/guide/redirect.htm?id=11175).

## Inclusion of Women, Minorities, and Individuals Across the Lifespan

When the proposed project involves human subjects and/or NIH-defined clinical research, the committee will evaluate the proposed plans for the inclusion (or exclusion) of individuals on the basis of sex/gender, race, and ethnicity, as well as the inclusion (or exclusion) of individuals of all ages (including children and older adults) to determine if it is justified in terms of the scientific goals and research strategy proposed. For additional information on review of the Inclusion section, please refer to the [Guidelines for the Review of Inclusion in Clinical Research \(//grants.nih.gov/grants/guide/redirect.htm?id=11174\)](https://grants.nih.gov/grants/guide/redirect.htm?id=11174).

## Vertebrate Animals

The committee will evaluate the involvement of live vertebrate animals as part of the scientific assessment according to the following criteria: (1) description of proposed procedures involving animals, including species, strains, ages, sex, and total number to be used; (2) justifications for the use of animals versus alternative models and for the appropriateness of the species proposed; (3) interventions to minimize discomfort, distress, pain and injury; and (4) justification for euthanasia method if NOT consistent with the AVMA Guidelines for the Euthanasia of Animals. Reviewers will assess the use of chimpanzees as they would any other application proposing the use of vertebrate animals. For additional information on review of the Vertebrate Animals section, please refer to the [Worksheet for Review of the Vertebrate Animal Section \(//grants.nih.gov/grants/guide/redirect.htm?id=11150\)](https://grants.nih.gov/grants/guide/redirect.htm?id=11150).

## Biohazards

Reviewers will assess whether materials or procedures proposed are potentially hazardous to research personnel and/or the environment, and if needed, determine whether adequate protection is proposed.

## Resubmissions

For Resubmissions, the committee will evaluate the application as now presented, taking into consideration the responses to comments from the previous scientific review group and changes

made to the project.

## Renewals

For Renewals, the committee will consider the progress made in the last funding period.

## Revisions

For Revisions, the committee will consider the appropriateness of the proposed expansion of the scope of the project. If the Revision application relates to a specific line of investigation presented in the original application that was not recommended for approval by the committee, then the committee will consider whether the responses to comments from the previous scientific review group are adequate and whether substantial changes are clearly evident.

## Additional Review Considerations

As applicable for the project proposed, reviewers will consider each of the following items, but will not give scores for these items, and should not consider them in providing an overall impact score.

### Applications from Foreign Organizations

Reviewers will assess whether the project presents special opportunities for furthering research programs through the use of unusual talent, resources, populations, or environmental conditions that exist in other countries and either are not readily available in the United States or augment existing U.S. resources.

### Select Agent Research

Reviewers will assess the information provided in this section of the application, including 1) the Select Agent(s) to be used in the proposed research, 2) the registration status of all entities where Select Agent(s) will be used, 3) the procedures that will be used to monitor possession use and transfer of Select Agent(s), and 4) plans for appropriate biosafety, biocontainment, and security of the Select Agent(s).

### Resource Sharing Plans

Reviewers will comment on whether the following Resource Sharing Plans, or the rationale for not sharing the following types of resources, are reasonable: (1) [Data Sharing Plan \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11151\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11151); (2) [Sharing Model Organisms \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11152\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11152); and (3) [Genomic Data Sharing Plan \(GDS\) \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11153\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11153).

### Authentication of Key Biological and/or Chemical Resources:

For projects involving key biological and/or chemical resources, reviewers will comment on the brief plans proposed for identifying and ensuring the validity of those resources.

### Budget and Period of Support

Reviewers will consider whether the budget and the requested period of support are fully justified and reasonable in relation to the proposed research.

## 2. Review and Selection Process

Applications will be evaluated for scientific and technical merit by (an) appropriate Scientific Review Group(s), in accordance with [NIH peer review policy and procedures \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11154\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11154), using the stated [review criteria](#). Assignment to a Scientific Review Group will be shown in the eRA Commons.

As part of the scientific peer review, all applications:

- May undergo a selection process in which only those applications deemed to have the highest scientific and technical merit (generally the top half of applications under review) will be discussed and assigned an overall impact score.

- Will receive a written critique.

Applications will be assigned on the basis of established PHS referral guidelines to the appropriate NIH Institute or Center. Applications will compete for available funds with all other recommended applications. Following initial peer review, recommended applications will receive a second level of review by the appropriate national Advisory Council or Board. The following will be considered in making funding decisions:

- Scientific and technical merit of the proposed project as determined by scientific peer review.
- Availability of funds.
- Relevance of the proposed project to program priorities.

### 3. Anticipated Announcement and Award Dates

After the peer review of the application is completed, the PD/PI will be able to access his or her Summary Statement (written critique) via the [eRA Commons \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11123\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11123). Refer to Part 1 for dates for peer review, advisory council review, and earliest start date.

Information regarding the disposition of applications is available in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11156\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11156).

## Section VI. Award Administration Information

### 1. Award Notices

If the application is under consideration for funding, NIH will request "just-in-time" information from the applicant as described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11157\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11157).

A formal notification in the form of a Notice of Award (NoA) will be provided to the applicant organization for successful applications. The NoA signed by the grants management officer is the authorizing document and will be sent via email to the grantee's business official.

Awardees must comply with any funding restrictions described in [Section IV.5. Funding Restrictions](#). Selection of an application for award is not an authorization to begin performance. Any costs incurred before receipt of the NoA are at the recipient's risk. These costs may be reimbursed only to the extent considered allowable pre-award costs.

Any application awarded in response to this FOA will be subject to terms and conditions found on the [Award Conditions and Information for NIH Grants \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11158\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11158) website. This includes any recent legislation and policy applicable to awards that is highlighted on this website.

### 2. Administrative and National Policy Requirements

All NIH grant and cooperative agreement awards include the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11120\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11120) as part of the NoA. For these terms of award, see the [NIH Grants Policy Statement Part II: Terms and Conditions of NIH Grant Awards, Subpart A: General \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11157\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11157) and [Part II: Terms and Conditions of NIH Grant Awards, Subpart B: Terms and Conditions for Specific Types of Grants, Grantees, and Activities \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11159\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11159). More information is provided at [Award Conditions and Information for NIH Grants \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11158\)](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11158).

Recipients of federal financial assistance (FFA) from HHS must administer their programs in compliance with federal civil rights law. This means that recipients of HHS funds must ensure equal access to their programs without regard to a person's race, color, national origin, disability, age and, in some circumstances, sex and religion. This includes ensuring your programs are accessible to persons with



limited English proficiency. HHS recognizes that research projects are often limited in scope for many reasons that are nondiscriminatory, such as the principal investigator's scientific interest, funding limitations, recruitment requirements, and other considerations. Thus, criteria in research protocols that target or exclude certain populations are warranted where nondiscriminatory justifications establish that such criteria are appropriate with respect to the health or safety of the subjects, the scientific study design, or the purpose of the research.

For additional guidance regarding how the provisions apply to NIH grant programs, please contact the Scientific/Research Contact that is identified in Section VII under Agency Contacts of this FOA. HHS provides general guidance to recipients of FFA on meeting their legal obligation to take reasonable steps to provide meaningful access to their programs by persons with limited English proficiency. Please see <https://www.hhs.gov/civil-rights/for-individuals/special-topics/limited-english-proficiency/index.html> (<https://www.hhs.gov/civil-rights/for-individuals/special-topics/limited-english-proficiency/index.html>). The HHS Office for Civil Rights also provides guidance on complying with civil rights laws enforced by HHS. Please see <https://www.hhs.gov/civil-rights/for-individuals/section-1557/index.html> (<https://www.hhs.gov/civil-rights/for-individuals/section-1557/index.html>); and <https://www.hhs.gov/civil-rights/for-providers/laws-regulations-guidance/index.html> (<https://www.hhs.gov/civil-rights/for-providers/laws-regulations-guidance/index.html>). Recipients of FFA also have specific legal obligations for serving qualified individuals with disabilities. Please see <https://www.hhs.gov/civil-rights/for-individuals/disability/index.html> (<https://www.hhs.gov/civil-rights/for-individuals/disability/index.html>). Please contact the HHS Office for Civil Rights for more information about obligations and prohibitions under federal civil rights laws at <https://www.hhs.gov/ocr/about-us/contact-us/index.html> (<https://www.hhs.gov/ocr/about-us/contact-us/index.html>) or call 1-800-368-1019 or TDD 1-800-537-7697. Also note it is an HHS Departmental goal to ensure access to quality, culturally competent care, including long-term services and supports, for vulnerable populations. For further guidance on providing culturally and linguistically appropriate services, recipients should review the National Standards for Culturally and Linguistically Appropriate Services in Health and Health Care at <http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=2&lvlid=53> (<http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=2&lvlid=53>).

In accordance with the statutory provisions contained in Section 872 of the Duncan Hunter National Defense Authorization Act of Fiscal Year 2009 (Public Law 110-417), NIH awards will be subject to the Federal Awardee Performance and Integrity Information System (FAPIIS) requirements. FAPIIS requires Federal award making officials to review and consider information about an applicant in the designated integrity and performance system (currently FAPIIS) prior to making an award. An applicant, at its option, may review information in the designated integrity and performance systems accessible through FAPIIS and comment on any information about itself that a Federal agency previously entered and is currently in FAPIIS. The Federal awarding agency will consider any comments by the applicant, in addition to other information in FAPIIS, in making a judgement about the applicant's integrity, business ethics, and record of performance under Federal awards when completing the review of risk posed by applicants as described in 45 CFR Part 75.205 "Federal awarding agency review of risk posed by applicants." This provision will apply to all NIH grants and cooperative agreements except fellowships.

## Cooperative Agreement Terms and Conditions of Award

Not Applicable

## 3. Reporting

When multiple years are involved, awardees will be required to submit the [Research Performance Progress Report \(RPPR\)](https://grants.nih.gov/grants/rppr/index.htm) (<https://grants.nih.gov/grants/rppr/index.htm>) annually and financial statements as required in the [NIH Grants Policy Statement](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11161). ([https://grants.nih.gov/grants/guide/url\\_redirect.htm?id=11161](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11161))

A final RPPR, invention statement, and the expenditure data portion of the Federal Financial Report are required for closeout of an award, as described in the [NIH Grants Policy Statement](https://grants.nih.gov) (<https://grants.nih.gov>)

[/grants/guide/url\\_redirect.htm?id=11161](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11161)).

The Federal Funding Accountability and Transparency Act of 2006 (Transparency Act), includes a requirement for awardees of Federal grants to report information about first-tier subawards and executive compensation under Federal assistance awards issued in FY2011 or later. All awardees of applicable NIH grants and cooperative agreements are required to report to the Federal Subaward Reporting System (FSRS) available at [www.fsrs.gov](https://www.fsrs.gov) ([/url\\_redirect.htm?id=11170](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11170)) on all subawards over \$25,000. See the [NIH Grants Policy Statement](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11171) ([/url\\_redirect.htm?id=11171](https://grants.nih.gov/grants/guide/url_redirect.htm?id=11171)) for additional information on this reporting requirement.

In accordance with the regulatory requirements provided at 45 CFR 75.113 and Appendix XII to 45 CFR Part 75, recipients that have currently active Federal grants, cooperative agreements, and procurement contracts from all Federal awarding agencies with a cumulative total value greater than \$10,000,000 for any period of time during the period of performance of a Federal award, must report and maintain the currency of information reported in the System for Award Management (SAM) about civil, criminal, and administrative proceedings in connection with the award or performance of a Federal award that reached final disposition within the most recent five-year period. The recipient must also make semiannual disclosures regarding such proceedings. Proceedings information will be made publicly available in the designated integrity and performance system (currently FAPIIS). This is a statutory requirement under section 872 of Public Law 110-417, as amended (41 U.S.C. 2313). As required by section 3010 of Public Law 111-212, all information posted in the designated integrity and performance system on or after April 15, 2011, except past performance reviews required for Federal procurement contracts, will be publicly available. Full reporting requirements and procedures are found in Appendix XII to 45 CFR Part 75 – Award Term and Conditions for Recipient Integrity and Performance Matters.

## Section VII. Agency Contacts

We encourage inquiries concerning this funding opportunity and welcome the opportunity to answer questions from potential applicants.

### Application Submission Contacts

eRA Service Desk (Questions regarding ASSIST, eRA Commons, application errors and warnings, documenting system problems that threaten submission by the due date, and post-submission issues)

Finding Help Online: <http://grants.nih.gov/support/> (preferred method of contact)

Telephone: 301-402-7469 or 866-504-9552 (Toll Free)

General Grants Information (Questions regarding application instructions, application processes, and NIH grant resources)

Email: [GrantsInfo@nih.gov](mailto:GrantsInfo@nih.gov) (<mailto:GrantsInfo@nih.gov>) (preferred method of contact)

Telephone: 301-945-7573

Grants.gov Customer Support (Questions regarding Grants.gov registration and Workspace)

Contact Center Telephone: 800-518-4726

Email: [support@grants.gov](mailto:support@grants.gov) (<mailto:support@grants.gov>)

### Scientific/Research Contact(s)

Participating NIH Institutes and Centers are listed in “Components of Participating Organizations” in [Part 1. Overview](https://grants.nih.gov/grants/guide/pa-files/PA-16-160.html#_Components_of_Participating) ([https://grants.nih.gov/grants/guide/pa-files/PA-16-160.html#\\_Components\\_of\\_Participating](https://grants.nih.gov/grants/guide/pa-files/PA-16-160.html#_Components_of_Participating)). Scientific/Research Contact information is listed on the [R01 IC-Specific Scientific Interests and Contact](https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html) (<https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html>) website.

## Peer Review Contact(s)

Examine your eRA Commons account for review assignment and contact information (information appears two weeks after the submission due date).

## Financial/Grants Management Contact(s)

Participating NIH Institutes and Centers are listed in “Components of Participating Organizations” in [Part 1. Overview \(https://grants.nih.gov/grants/guide/pa-files/PA-16-160.html#\\_Components\\_of\\_Participating\)](#). Financial/Grants Management Contact information is listed on the [R01 IC-Specific Scientific Interests and Contact \(https://grants.nih.gov/grants/guide/contacts/parent-R01-CT-NotAllowed.html\)](#) website.

## Section VIII. Other Information

Recently issued trans-NIH [policy notices \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11163\)](#) may affect your application submission. A full list of policy notices published by NIH is provided in the [NIH Guide for Grants and Contracts \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11164\)](#). All awards are subject to the terms and conditions, cost principles, and other considerations described in the [NIH Grants Policy Statement \(//grants.nih.gov/grants/guide/url\\_redirect.htm?id=11120\)](#).

## Authority and Regulations

Awards are made under the authorization of Sections 301 and 405 of the Public Health Service Act as amended (42 USC 241 and 284) and under Federal Regulations 42 CFR Part 52 and 45 CFR Part 75.

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[Weekly TOC for this Announcement \(/grants/guide/WeeklyIndex.cfm?11-09-18\)](#)  
[NIH Funding Opportunities and Notices \(/grants/guide/index.html\)](#)

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National Institutes of Health [\(/grants/oer.htm\)](#)  
Office of Extramural Research



[\(http://www.hhs.gov/\)](http://www.hhs.gov/) Department of Health  
and Human Services (HHS)



[\(http://www.usa.gov/\)](http://www.usa.gov/)

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**Note:** For help accessing PDF, RTF, MS Word, Excel, PowerPoint, Audio or Video files, see [Help Downloading Files \(/grants/edocs.htm\)](#).