



Welcome to the CLU-IN Internet Seminar Superfund Research Program P42 RFA Briefing (RFA ES 20-014)

Sponsored by:
National Institute of Environmental Health Sciences,
Superfund Research Program

Presenters:

William Suk, Director, Superfund Research Program (SRP), NIEHS (suk@niehs.nih.gov)
Heather Henry, Program Administrator, SRP NIEHS (henryh@niehs.nih.gov)
Danielle Carlin, Program Administrator, SRP NIEHS (danielle.carlin@niehs.nih.gov)
Michelle Heacock, Program Administrator, SRP NIEHS (HeacockM@niehs.nih.gov)
Brittany Trottier, Health Specialist, SRP NIEHS (Brittany.trottier@niehs.nih.gov)
Laura Thomas, Scientific Review Officer, NIEHS (Laura.Thomas@niehs.nih.gov)
Jenny Greer, Grants Management Chief (jenny.greer@niehs.nih.gov)

Moderator:

Sara Amolegbe, Health Specialist, SRP NIEHS, (sara.amolegbe@niehs.nih.gov)

Webinar Logistics:

Kerri Moran Voelker, MDB Inc., kerri.voelker@niehs.nih.gov

Oct 1, 2020 1:30 – 2:30 pm Presentations / QA 2:30-3:00pm EST

Link to RFA: <https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-20-014.html>

Link to RFA Information Page:

<https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/index.cfm>

Funding Opportunity Webinar – P42 Center RFA ES-20-014

Agenda

- Welcome and Overview of P42 funding mechanism: William Suk (SRP Director)
- P42 RFA
 - General Information: Heather Henry, Danielle Carlin, Michelle Heacock, and Brittany Trottier
 - Review Criteria: Laura Thomas (Scientific Review Officer)
 - Budget: Jenny Greer (Grants Management Chief)
- Question / Answer

SRP Mandates under SARA

University-based basic research program established in 1986 under Superfund Amendments and Reauthorization Act (SARA)

Development of:

Health Effects

- Advanced techniques for the detection, assessment, and evaluation of the human health effects of hazardous substances

Assessing Risks

- Methods to assess the risks to human health presented by hazardous substances

Detection

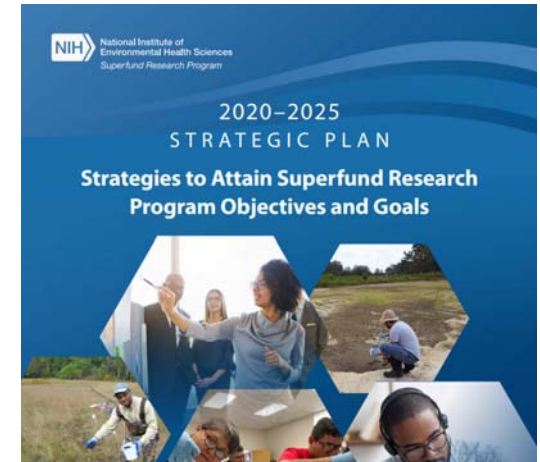
- Methods and technologies to detect hazardous substances in the environment

Remediation

- Basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances

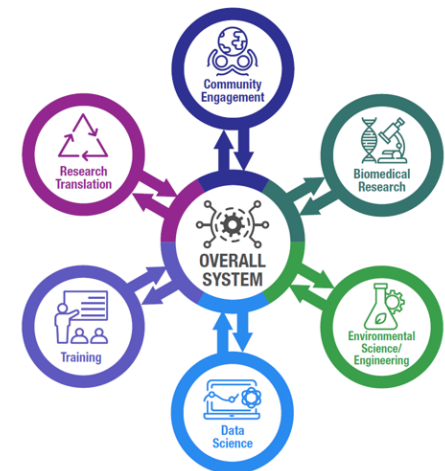
SRP Strategic Plan

- The **2020-2025 SRP Strategic Plan** provides direction to both SRP grantees and program staff to:
 - Address issues of high relevance
 - Maximize the impact of program investments
 - Foster innovations
- Adapts a **systems approach** to promote interdisciplinary research and advance SRP science in order to reduce exposures and the resulting burden of disease.
- Emphasizes the importance of broadening potential partners or end users.



SRP Stakeholders

- US Environmental Protection Agency (USEPA)
- Agency for Toxic Substances and Disease Registry (ATSDR)
- Other Federal agencies, such as NOAA, USGS, DOD, DOE National Oceanic and Atmospheric Administration
- State and local agencies and tribal entities responsible for sites
- Individuals and communities living near hazardous waste sites



SRP Strategic Plan: https://www.niehs.nih.gov/research/supported/centers/srp/about/strat_plan/index.cfm

SRP Website: <https://www.niehs.nih.gov/research/supported/centers/srp/index.cfm>

P42 Multi-Project Centers

RFA-ES-20-014

SUPERFUND HAZARDOUS SUBSTANCE RESEARCH AND TRAINING PROGRAM (P42)

Improve public health by supporting integrative, multi-disciplinary research.

Provide sound science, data, information, and knowledge to inform the risk assessment and remediation management processes.

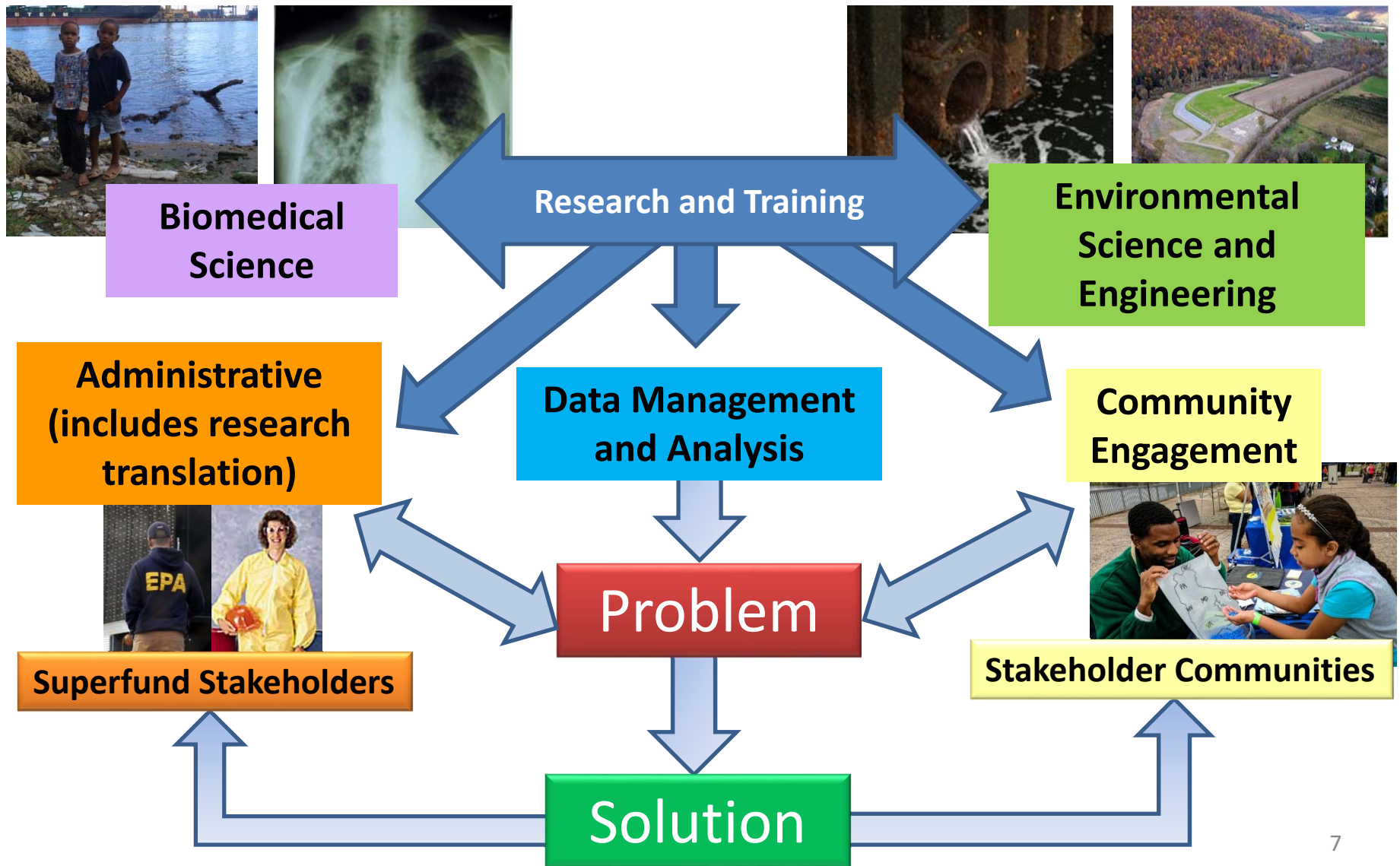
Bring expertise of multiple biomedical and environmental science and engineering disciplines to address scientific uncertainties facing the National Superfund Program.

- P42 RFA Website: <https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/index.cfm>
- RFA-ES-20-014: <https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-20-014.html>
- Suggested Research and Activities Document:
https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf
- Tips for Applicants: https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_tips/index.cfm
- Additional Resources:
https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_resources/index.cfm

Key Dates

- Open Date (Earliest Submission Date): Jan 15, 2021
- Letter of Intent Due Date: Jan 15, 2021
- Application Due Date: Feb 15, 2021, by 5PM local time
- Scientific Merit Review: July 2021
- Advisory Council Review: Jan 2022
- Earliest Start Date: April 2022

P42 Multi-Project Centers



P42 Multi-Project Centers

Scope of the SRP Center Grant

SRP Mandates

- Advanced techniques for the detection, assessment, and evaluation of the effect of hazardous substances on **human health**
- Methods to assess the **risks** to human health presented by hazardous substances
- Methods and technologies to **detect** hazardous substances in the environment
- Basic biological, chemical, and physical methods to **reduce the amount and toxicity** of hazardous substances

SRP's Strategic Plan

- **Relevance:** to Superfund
- **Impact:** to Stakeholders
- **Innovation:** Trans-disciplinary/Paradigm-shifting

Not Required: Superfund Site

CERCLA Substances/Hazardous Substances:

<https://www.atsdr.cdc.gov/SPL/index.html>;
https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_resources/index.cfm

Programmatic Balance

- **See Current Grantees:**
<http://tools.niehs.nih.gov/srp/programs/index267.cfm>

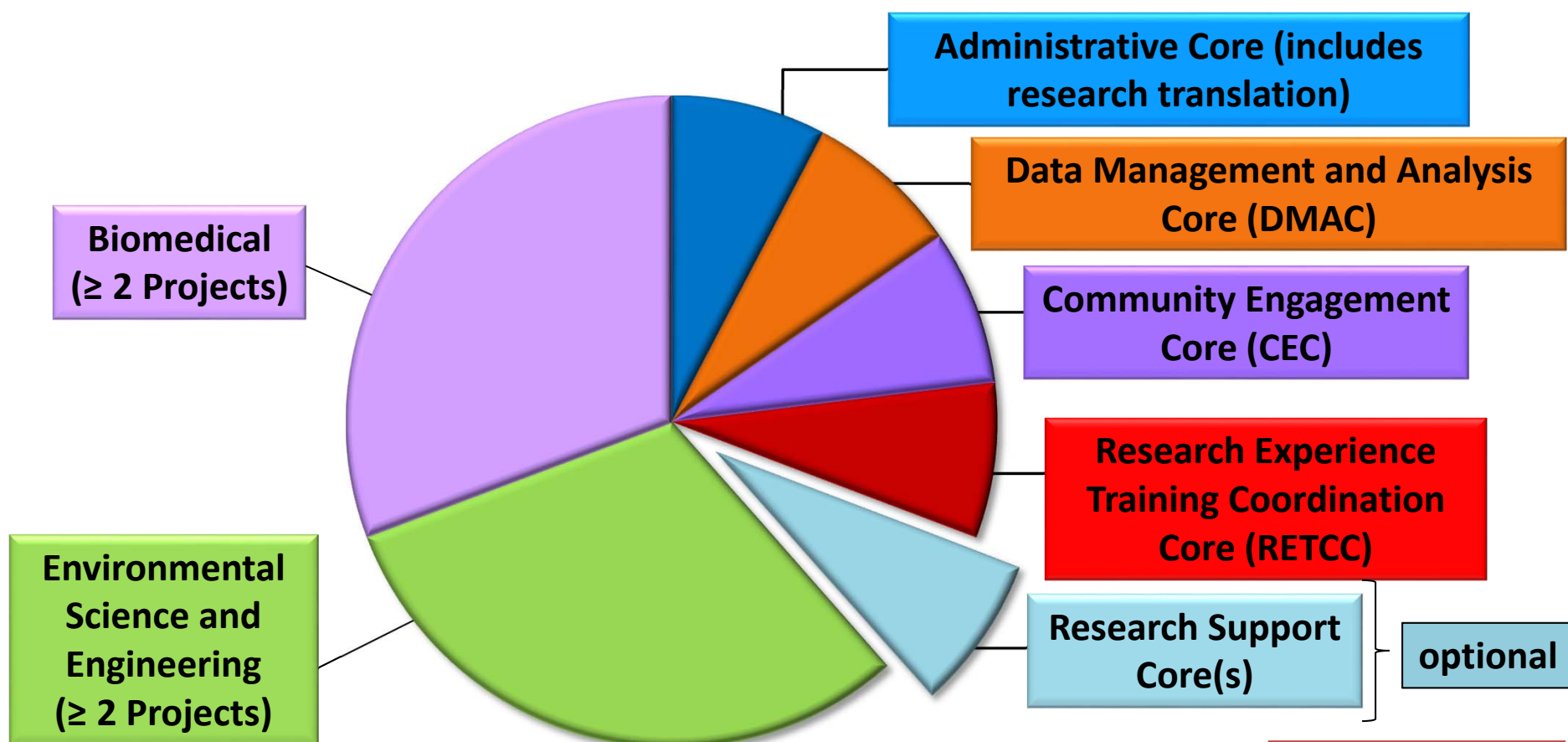
Suggested Research Topics and Activities

- High priority areas for SRP Stakeholders
https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf

**Broad Scope –
Ultimately should be a clear link to
Superfund.**

P42 Multi-Project Centers

All Components Interacting, Addressing Problem



Total: 8 - 11 Components

New, Renewal Proposals, and Resubmissions: up to \$1.75M/year direct costs for 5 years

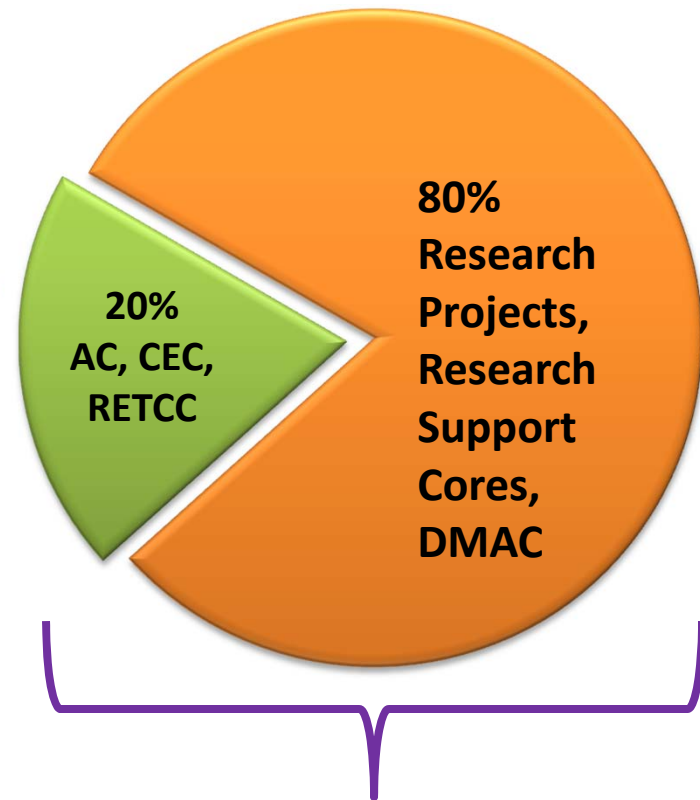
Cost Limitations (Direct)

Cores Sum \leq 20% Total Center

**Administrative
Community Engagement
Research Experience and Training
Coordination**

Core Limitations (Direct):

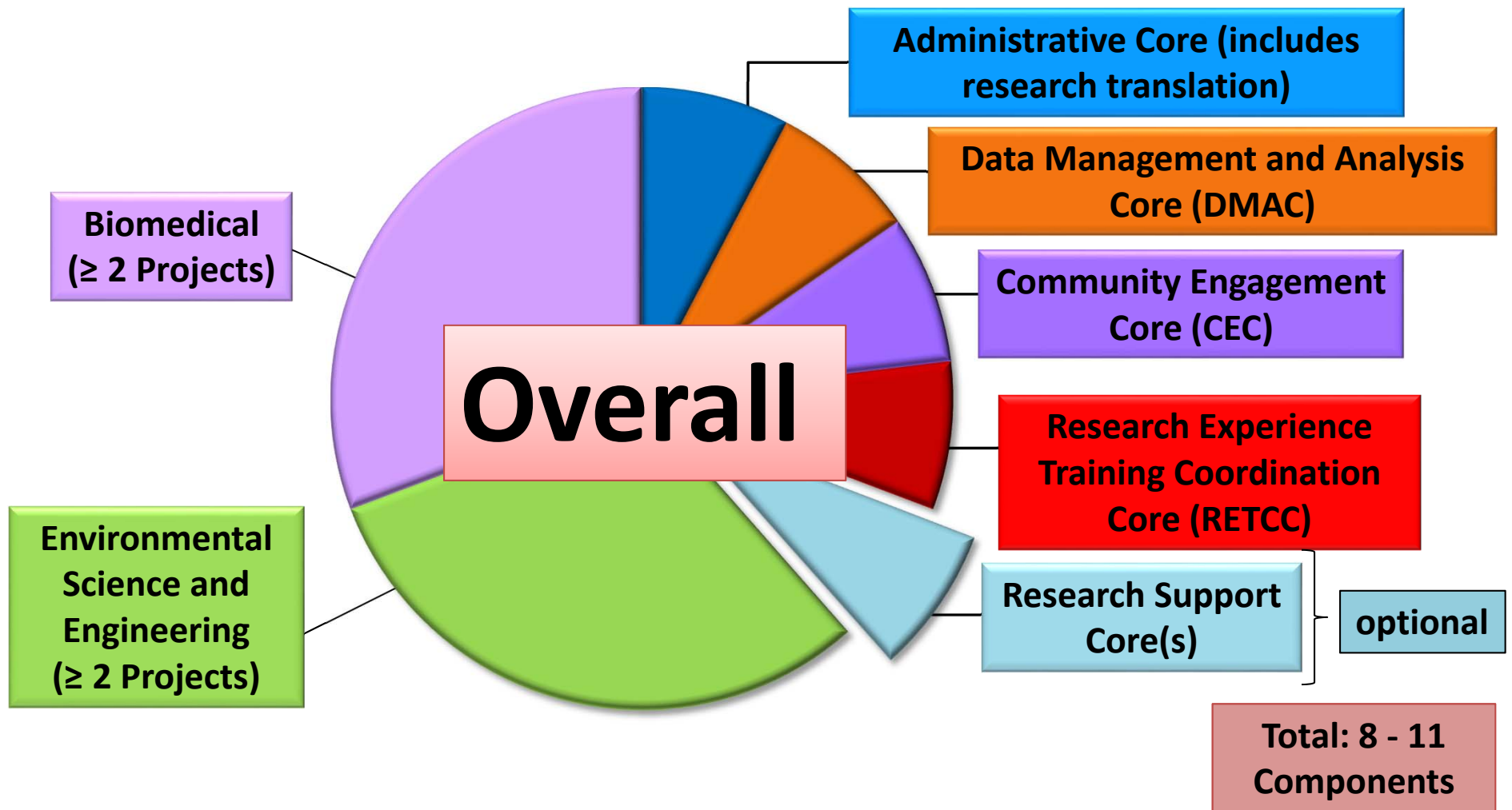
- Administrative - \$150K
- Community Engagement - \$100K
- Research Experience and Training Coordination- \$100K
- Data Management and Analysis – no set budget
- Research Support Core (Optional) – no set budget



Center:

New and Renewal Applicants: up to \$1.75M/year direct costs for 5 years

Overall Component

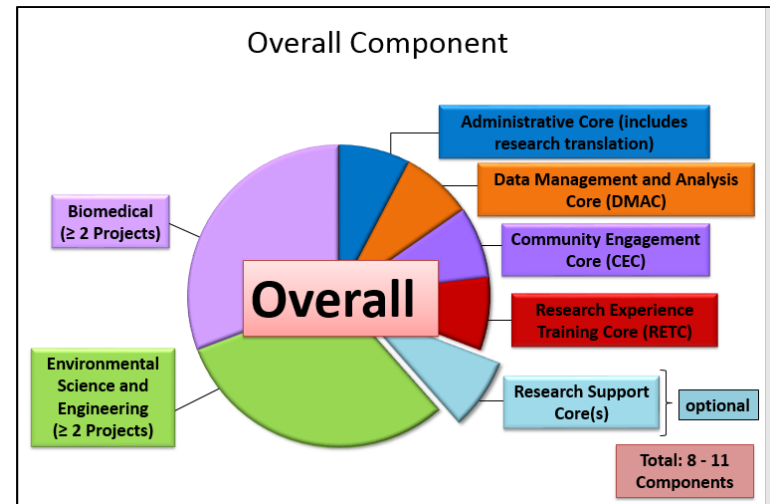


Recommended Subsections: Significance and Relevance to SRP Mandates and Superfund;
Research Team; Innovation, Approach; Environment; and Center Integration

Overall Component

Other Attachments

- *Center Organizational Structure*
- *Table of Integration with Center*
- *Table of Stakeholders and Field Sites* **NEW!**
- *Table of Research Support Core and DMAC Utilization*
- *Table of Changes to Projects and Cores* (renewal/resubmission applications)
- *Table of Research Approaches*



Resource Sharing Plan

- *Summary of Center Data Management and Analysis*

Tips for Applicants:

https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_tips/index.cfm

Table Examples for Overall Section

Tips for Applicants

Superfund Research Program

The following links provide information for Superfund Research Program Center (P42) applicants to assist in putting together a P42 application. In addition to the information below, please visit the [P42 Funding Opportunities Webpage](#), which contains links to [Suggested Research and Activities](#) (485KB), [Additional Resources](#), and Frequently Asked Questions (Coming Soon) for assisting P42 applicants in developing robust and relevant research projects and core activities.

Electronic Application

Table of Changes

Current Project Number/Core Name	Project Core Status*	Project Core Leader	Title of Project/Core	Biomedical (BMR) or Environmental Science and Engineering (ESE)**	Previous Project Number/Core Name
Project 1	C	Georgia Matisse	Markers of Exposures to Mixtures	BMR	Project 1
Project 2	N	Pablo Braque	Individual Susceptibility to Disease Risk	BMR	N
Project 3	C	Ansel Modigliani	Redistribution of PAHs	ESE	Proj
Project 4	M	Georges Picasso	PAH Remediation	ESE	
Administrative Core	C	Georgia Matisse	Administrative Core		
Data Management and Analysis Core	C	Juan Monet	Data Management Analysis Core		
Community Engagement Core	M	Claude Kollwitz	Community Engagement		
Research Experience and Training Coordination Core	N	Georges Picasso	Research Experience at Training Coordination		
Core A	C	Kathe Pollack	Biomarker Cg Molecular Eff of Low Level Exposures		
Discontinued	F	Claude Pollock			

* Please label in the following format: new = N; continuing = C; finished/completed = F; or discontinued = D.
** For research projects only

Table of RSC and DMAC Utilization

Research Projects	Data Management and Analysis Core	Research Support Core A: Analytical Core	Research Support Core B: Statistics
Research Project 1	20%	50%	0
Research Project 2	20%	0	0
Research Project 3	20%	50%	30%
Research Project 4	20%	0	70%
Admin Core	5%	0	0
Research Experience and Training Coordination Core	5%	0	0
Community Engagement Core	5%	0	0
Research Support Core A	2.5%	N/A	0
Research Support Core B			

Table of Research Approaches

Illustration 3: Table of Research Approaches. To facilitate the identification of projects and cores, a table should be included indicating the use of human subjects, clinical research, vertebrate animals, international collaborations, and stem cells. Please list all research projects and cores. This table should be included under the "SF424 (R&R) Research & Research Approaches" under the "SF424 (R&R) Research & Research Attachments" in the Overall section.

Table of Integration of Center

Illustration 4. Table of Integration with Center. To assist the reviewers in determining the relationship between components, a table should be provided showing interactions between projects and cores for the achievement of the Center's overall objectives. Applicants may want to include a key for the full project titles. All projects This table should be provided as a pdf file titled "Table of Integration with Center".

Integrated Research Goals	Project 1 (BMR)	Project 2 (BMR)	Project 3 (BMR)	Project 4 (ESE)	Project 5 (ESE)	Core A	Core B	Explanation of Integration
Finding targets and endpoints of X exposure	x		x			x		Results from Project 1 will determine the dose ranges for Project 3. Core A will determine gene networks activated for early biomarker of exposure in Projects 1 and 3.
Pathways of exposure prevention		x	x					Project 2 will identify gene targets for potential interventions (Project 3).
Targets for remediation	x			x	x		x	Project 1 and Core B will screen and identify the most toxic metabolites to inform Project 4 and 5 of which metabolites to monitor and remediate. Projects 4 and 5 will share sediment samples from the contaminated and control sites and will determine sensor technology predicts bioavailability.
Fate and transport of X				x	x			Project 1 will run toxicity tests of byproducts of remediation technology (Project 4).
Remediation effectiveness	x				x			Core B analysis of compound X for Projects 2-5.
Analytical Support		x	x	x	x		x	Core B analysis of compound Y for Projects 1-2, 5.
Biomarker monitoring			x	x				Project 4 will develop protocols to test sensor for external dose as well as biomonitoring for Project 3.

Project 1: (Title, PI Name); Project 2: (Title, PI Name); etc.

Stem Cell Research**	NIH-Required Sharing***
No	No
non-hESC	Yes - GWAS
Yes	Yes - Omics
No	No
No	Unique Model Organism
No	No

Tips for Applicants:

https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_tips/index.cfm

New Table for Overall Section

Illustration 2. Table of Stakeholders and Field Sites. To assist the reviewers in identifying significant project and core interactions with key stakeholders and field sites a table should be provided showing which projects and cores interact with which stakeholders/field sites as well as the type of interaction/activity (see examples below table). Stakeholders would include local/state/federal government organizations, non-government organizations, community organizations/groups, other end-users) with significant ongoing and/or planned interactions. Field sites would include Superfund or other hazardous waste sites or other study/research sites. Applicants are encouraged to cross-reference sections of the application where more details are provided. Applicants may wish to use an asterisk (*) to note if a letter of support is provided in the application. This table should be provided as a pdf file titled "Table of Stakeholders and Field Sites."

Note: Please do not name specific individuals, just provide the name of the stakeholder organization/group. For large Federal Agencies/Organizations, please identify the Office/Region/Department.

Stakeholder/Field Site	Project/Core	Type of Interaction **	Status of Interaction (Ongoing/Planned)
Stakeholder Organization #1 (* letter of support in Admin Core)	Admin Core	Communication: key point of contact for coordination of activities	Ongoing
	Project 1	Communication: providing expert consultation on ongoing toxicity studies	Ongoing
Community Organization #1 (* letter of support in CEC)	Community Engagement Core (CEC)	Community Engagement: partnership on several initiatives to identify prevention/intervention strategy	Ongoing
Field Site #1 (* letter of support in Project 2)	Project 2	Research: Collection of soil samples for off-site analysis	Planned
	Project 4	Research: epidemiology study of the adjacent	Planned

Tips for Applicants:

https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_tips/index.cfm

Overall Resource Sharing Plan

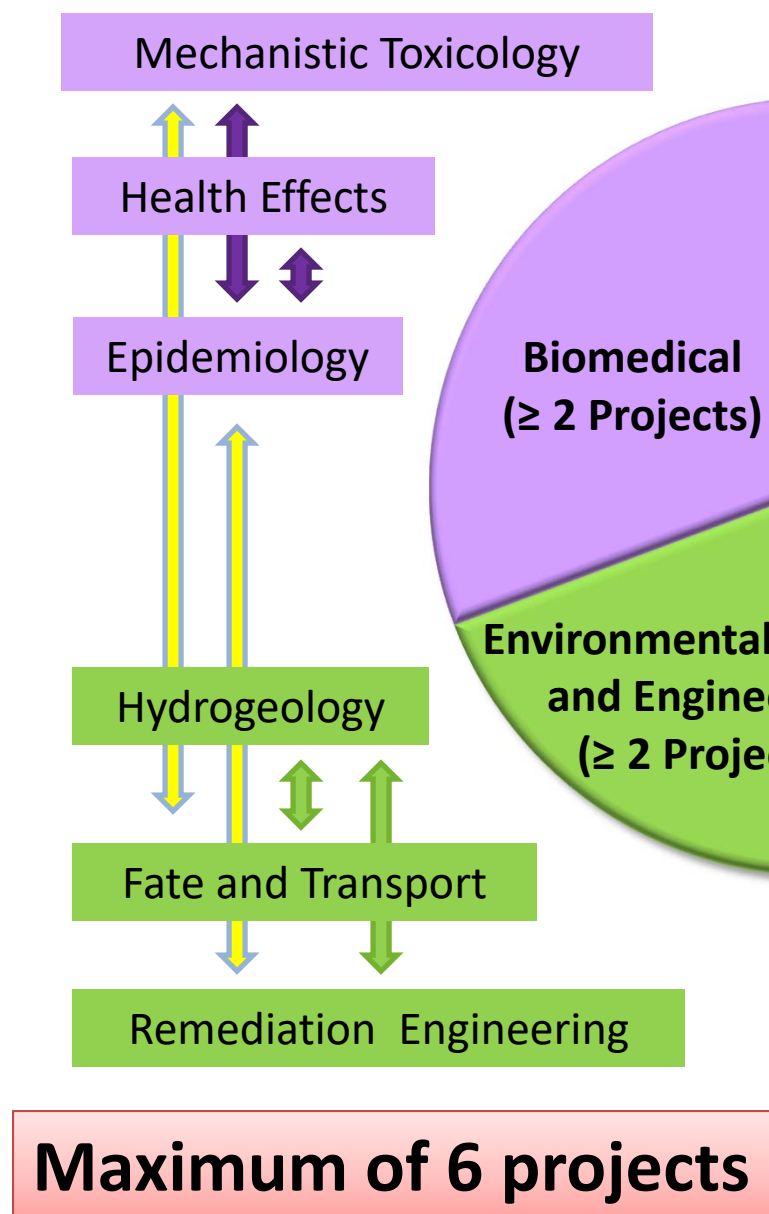
- Current RFA: includes a “*Summary of Center Data Management and Analysis*”

Resource Sharing Plan

- *Summary of Center Data Management and Analysis*

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, with the following modification: For the Data Sharing Plan, applicants should provide a “Summary of Center Data Management and Analysis.” This summary should include a general description of the types of data expected to be generated from the Center, a synopsis of proposed data management/sharing activities. Applicants may wish to highlight anticipated integration opportunities between projects and cores. Information included in this section should briefly summarize, but not duplicate, the component sections of the application, cross-referencing the DMAC and project/core Resource Sharing Plans for more detailed descriptions about data management, analysis, and sharing.

P42 Projects

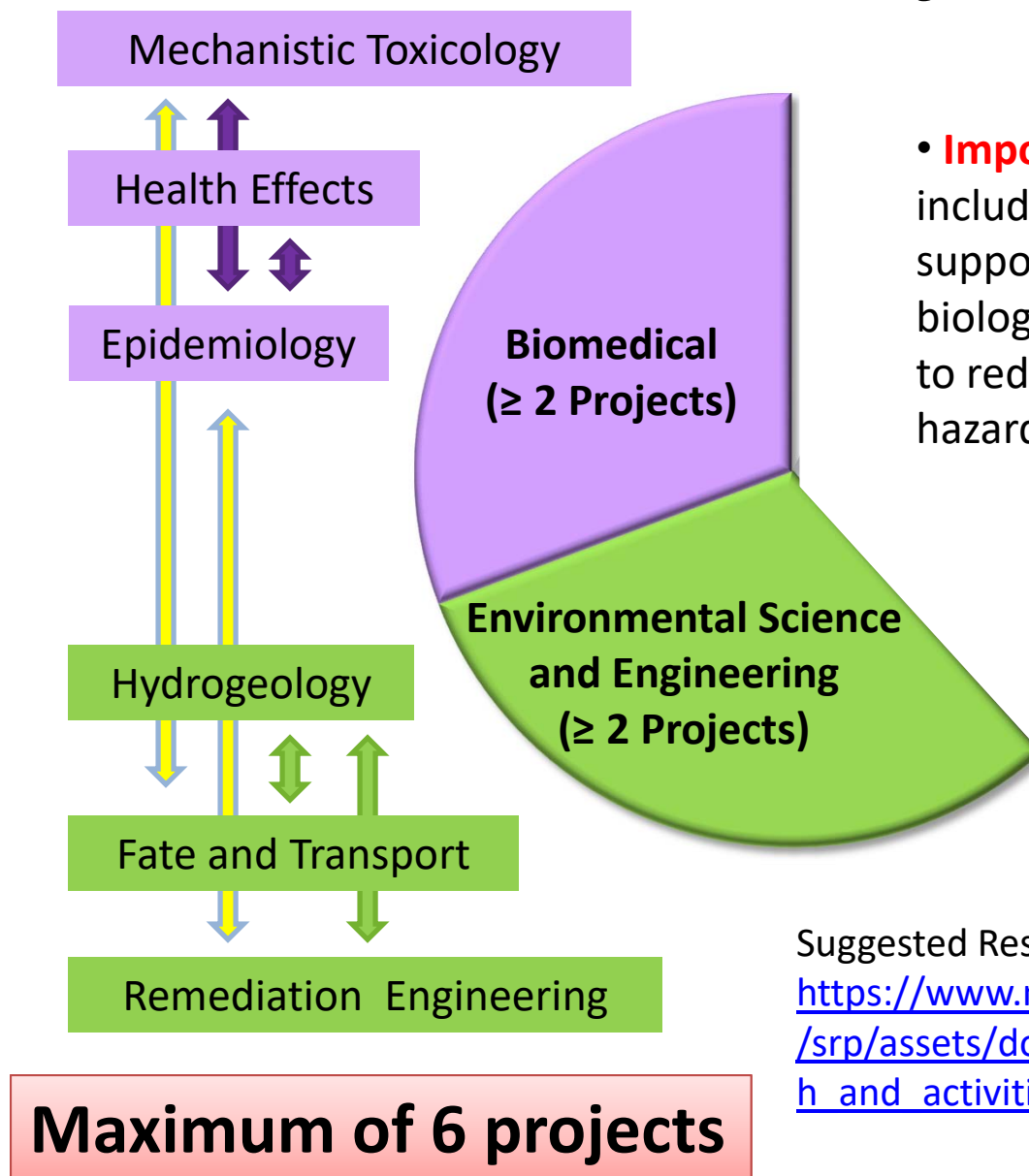


- Each project is reviewed as stand-alone
- Basic to application oriented
- Has an independent testable hypothesis or a logical progression of tasks
- Relation to SRP mandate(s)
- Relation to Overall Center
- Integration with other Projects and Cores (collaborative aims are allowed, not required)
- Resource Sharing Plan
 - Data Sharing Plan:
 - 1) Project-Specific Data Mgmt Plan
 - Investigator-Initiated Research Translation

Suggested Research and Activities:

https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf

P42 Projects



- **Important Note:** Applications should include at least one ESE project that supports SRP's fourth mandate "basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances"

Questions if a Project qualifies?
Please contact SRP staff.

Suggested Research and Activities:

https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf

P42 Projects

Important Tips!

FOCUS!!!!

- Centers should be VERY judicious in assembling research projects. Keep a clear focus and do not try to do too much!!
- Include projects with most solid connection to the Center's problem-solving theme.
- Justify model organisms, study numbers (e.g., animals; human subjects), dose, exposure relevance, etc.
- Lean Times: Not too big! Consider coming in under budget and well under 11-component limit.

Interactions:

- Cross-reference interactions between projects and cores. Should be consistent throughout.
- Collaborative aims – if applicable, point them out!
- Refer to "*Table of Integration with Center*" (Overall Section)

Avoid Jargon!

P42 Reviewers have broad expertise

- Write abstracts/titles for a general audience (Plain Language: http://grants.nih.gov/grants/plain_language.htm)
- Write Specific Aims for technical experts
- Define Abbreviations

P42 Administrative Core (Required)

Consists (at minimum) of Center Director,
Research Translation Coordinator, and
Center Administrator

Functions

- Planning and coordination
- Promote cross-discipline interaction among projects and cores
- Oversee fiscal and quality management
- Ensures research translation

Research Translation

1. Communication within SRP and to SRP staff
2. Partnerships with Government Agencies
3. Technology Transfer
4. Information Dissemination to Other End-Users

Administrative Core identifies Points of Contact (on behalf of the whole Center):

- Data Collection Tool
- SRP-hosted conference calls/webinars on research translation, community engagement, and data management
- NIH/NIEHS CareerTrac

Suggested Research and Activities:

https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf

SRP Data Collection Tool: <https://tools.niehs.nih.gov/srp/rtc/index.cfm>

NIH CareerTrac database: <https://careertrac.niehs.nih.gov/public/home>

P42 Administrative Core (Required)

External Advisory Committee (EAC)

- Provides Guidance to Director
 - Scientific Merit
 - Relevance, sharing of data, integration
 - Effectiveness of research translation, community engagement, training activities
- Discussion of projects that should be continued, modified, or discontinued

Anticipated EAC Members*

Academics (biomedical AND environmental science and engineering), Stakeholders, EPA/ATSDR, Industry, Community

New Applicants: include expertise of potential EAC members, **do not include names of any individuals*

Administrative Core not to exceed \$150,000 Direct Costs; Center Director must commit a minimum of 1.8 person months

P42 Data Management and Analysis Core (Required)

Purposes

- Support the management and integration of data assets across the Center, irrespective of dataset size
- Establish, coordinate, and monitor processes for data analysis
- Work with project/core leaders to ensure high data quality through lifecycle of data
- Identify opportunities for integrating project/core-generated data with other existing datasets
- Foster and enable interoperability of data between BMR and ESE projects to accelerate impact of Center's research

Comprehensive data management plan

- 1) coordination with projects and cores
- 2) fostering data sharing and interoperability
- 3) data quality assurance and quality control.

Provides Points of Contact (in Relation to Overall Center)

- Data Collection Tool
- SRP-hosted conference calls/webinars data management and analysis

- May also include additional functionalities of biostatistics, bioinformatics, geographical information systems, and computational modeling, etc.
- Note: Not required to create a repository for the Center's data

DMAC does not have set budget

Data sharing policies: <https://grants.nih.gov/policy/sharing.htm>; <https://fairsharing.org/>
SRP Data Collection Tool: <https://tools.niehs.nih.gov/srp/rtc/index.cfm>

P42 Community Engagement Core (Required)

CEC addresses prevention/intervention defined by SRP's fourth mandate as “basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances”

Functions:

- Ensure bidirectional communication between the CEC and the community
- Direct best practices for prevention and/or intervention
- Provide potential solutions to reduce/mitigate the impact of hazardous substance exposure (SRP Mandate #4)

Target communities

- Communities impacted by hazardous substances (e.g., local government groups, Tribal councils/communities, community service groups, etc.)
- Emphasis: environmental justice communities (i.e., economically disadvantaged, underserved or vulnerable populations, minority populations, and Tribal communities)

Include descriptions of:

- Intervention and prevention activities
- How CEC fits into Center theme
- Timeline with milestones
- Plan to measure and verify outcomes
- Approach/methodology for surveys and/or sample collection
- Process to ensure effective bi-directional exchange of needs, recommendations, and results
- Recommended to include letters of support from community

Core not to exceed \$100,000
Direct Costs

Provide Point of Contact for SRP-hosted conference calls/webinars on community engagement

Suggested Research and Activities:

https://www.niehs.nih.gov/research/supported/centers/srp/assets/docs/srp_funding_opps_suggested_research_and_activities_508.pdf

P42 Research Support Core (Optional)

Purpose:

- Provides centralized services
- Shared by at least 2 projects

Can include laboratory facilities, analytical chemistry, '-omics' support, or analytical equipment and services; does not typically include research

- Pros and Cons of RSC
 - Pros:
 - Excellent Interactions/Integration
 - Opportunities for Training
 - Assurance of Quality
 - Cons:
 - May not be critical (if facilities already available)
 - 11 component limit

Include information on:

- How Core is a resource to the Center as a whole. Does it help integrate projects? How does it coordinate with DMAC?
- How the Core's centralized services will produce an economy of effort and/or savings in overall costs compared to their inclusion as part of each project in the Center.
- Research Support Cores that provide analytical and quantitative services to the applicant's Center should include a Quality Assurance Section (<https://www.epa.gov/quality>)

Reference "Table of Research Support and Data Management and Analysis Core Utilization," described in the Overall component

RSCs do not have a set budget.

P42 Research Experience and Training Coordination Core (Required)

Graduate and Post-doctoral level cross-disciplinary training

Functions

- Promote interactions between biomedical and environmental science & engineering trainees
- Professional development
- Promote involvement in Community Engagement and research translation, etc. (not mandatory but encouraged)
- Promote interaction with Data Management and Analysis Core
- Provide information about trainees and their activities to the SRP
- Identify ways to enhance inclusion of trainees from diverse backgrounds

Activities: tailored curricula development, selected coursework, cross-disciplinary lab experiences, seminar series, journal clubs, workshops/conferences related to professional development, and travel to scientific meetings, mentoring (esp. diverse backgrounds) etc.

Reviewers want to know about past trainee successes (i.e., Trainee List)

Not to exceed \$100,000
Direct Costs

NIH CareerTrac database:

<https://careertrac.niehs.nih.gov/public/home>

SPAN Leadership Committee:

<https://www.niehs.nih.gov/research/supported/center/srp/training/spa/committee/index.cfm>

Trainee List (for renewals only)

Illustration 6: Trainee List. In order to assist the review, a "Trainee List" is required in the Research Experience and Training Coordination Core Progress Report attachment for competitive renewal applications. In the "Trainee List," it is important that the application identify graduate student and postdoctoral researchers who participated in the "Training Core" during the previous funding cycle. (The SRP considers "trainees" as graduate students and post-doctoral researchers that perform research/activities that are supported by the Center.) This list should be in tabular form and include the names of the trainees, their SRP Center-associated mentor name, and project/core. Also, please indicate in the application that the trainee information has been entered into the [NIH CareerTrac database](#) (Note: All trainees should be entered into the NIH CareerTrac database)

Name of Trainee	Position Title (i.e., Graduate Student or Post-Doc)	Project Number/ Core Name	Mentor Name*	Current Status**
Dr. Esperanza Jones	Post-Doc	Project 1	Dr. Ella Davis	In Training
Ms. Diana Coltrane	Master's student	Project 2	Dr. Louis Holiday	In Training
Dr. Winslow Spalding	Post-Doc	Project 3	Dr. Dean Armstrong	Complete
Dr. Nora	Post-Doc	Project 3	Dr. Miles	Other

Tips for Applicants:

https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/rfa_tips/index.cfm

Other Tips for Projects & Cores:

- Please be sure to include “Authentication of Key Biological and/or Chemical Resources” and “Biohazards” if you are working with a hazardous substance
- Rigor and Reproducibility: please incorporate rigor and reproducibility into your application (Research Strategy, possibly Authentication Biol/Chem). See Review section for details.
- Resource Sharing Section:
 - NIH requires 1) Data Sharing Plan; 2) Sharing Model Organisms; and 3) Genomic Data Sharing Plan. The Data Sharing Plan should include “Project/Core-Specific Data Management Plan” and, for projects, an “Investigator-Initiated Research Translation Plan”

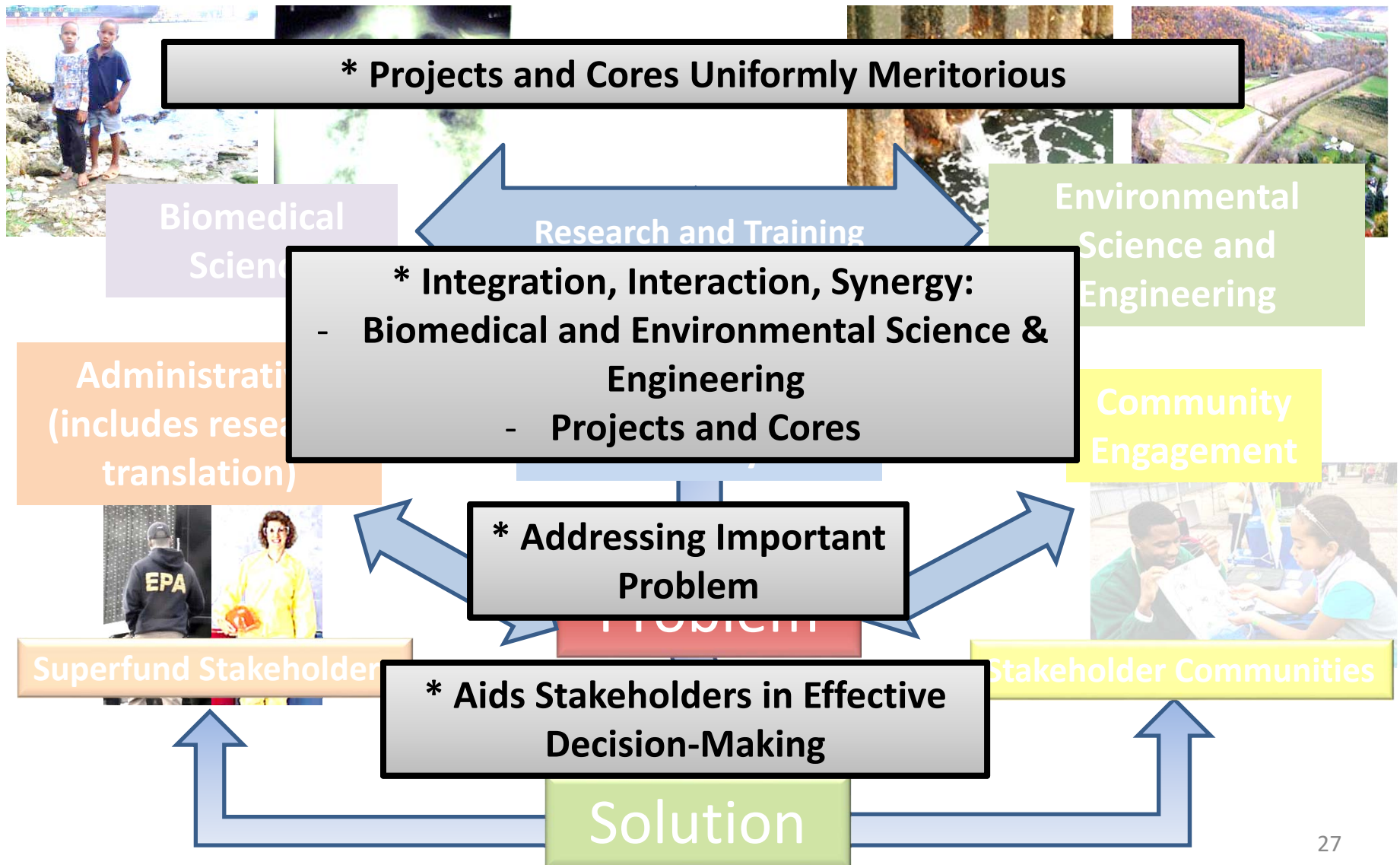
Resource Sharing Plan: Individuals are required to comply with the instructions for the Resource Sharing Plans as provided in the SF424 (R&R) Application Guide including a 1) Data Sharing Plan; 2) Sharing Model Organisms; and 3) Genomic Data Sharing Plan.

The Data Sharing Plan should include a “Project-Specific Data Management Plan” and an “Investigator-Initiated Research Translation Plan.”

- The Project-Specific Data Management Plan should provide details about the project’s protocols and plans for data management, analysis, and sharing. Roles and responsibilities of the Project (versus Data Management and Analysis Core (DMAC)/other Cores/Projects) for achieving NIH-required data sharing requirements / other data activities should be clearly indicated. This section should be consistent with data-related activities described in the DMAC and/or respective Project/Cores (as appropriate). This section may cross-reference other sections of the application where details are provided (e.g. sections of the DMAC component, or other Project/Core Resource Sharing Plans).
- The Investigator-Initiated Research Translation (IIRT) plan should be cross-referenced in the Administrative Core’s research translation functions.

A description/checklist of a Project-Specific Data Management Plan and examples of Investigator Initiated Research Translation activities are provided for reference in the “Suggested Research and Activities” document on the following website (<https://www.niehs.nih.gov/research/supported/centers/srp/funding/rfa/>).

P42 Multi-Project Centers



P42 Superfund Research Program Review Process

Laura Thomas, Ph.D.
Scientific Review Officer

RFA-ES-20-014

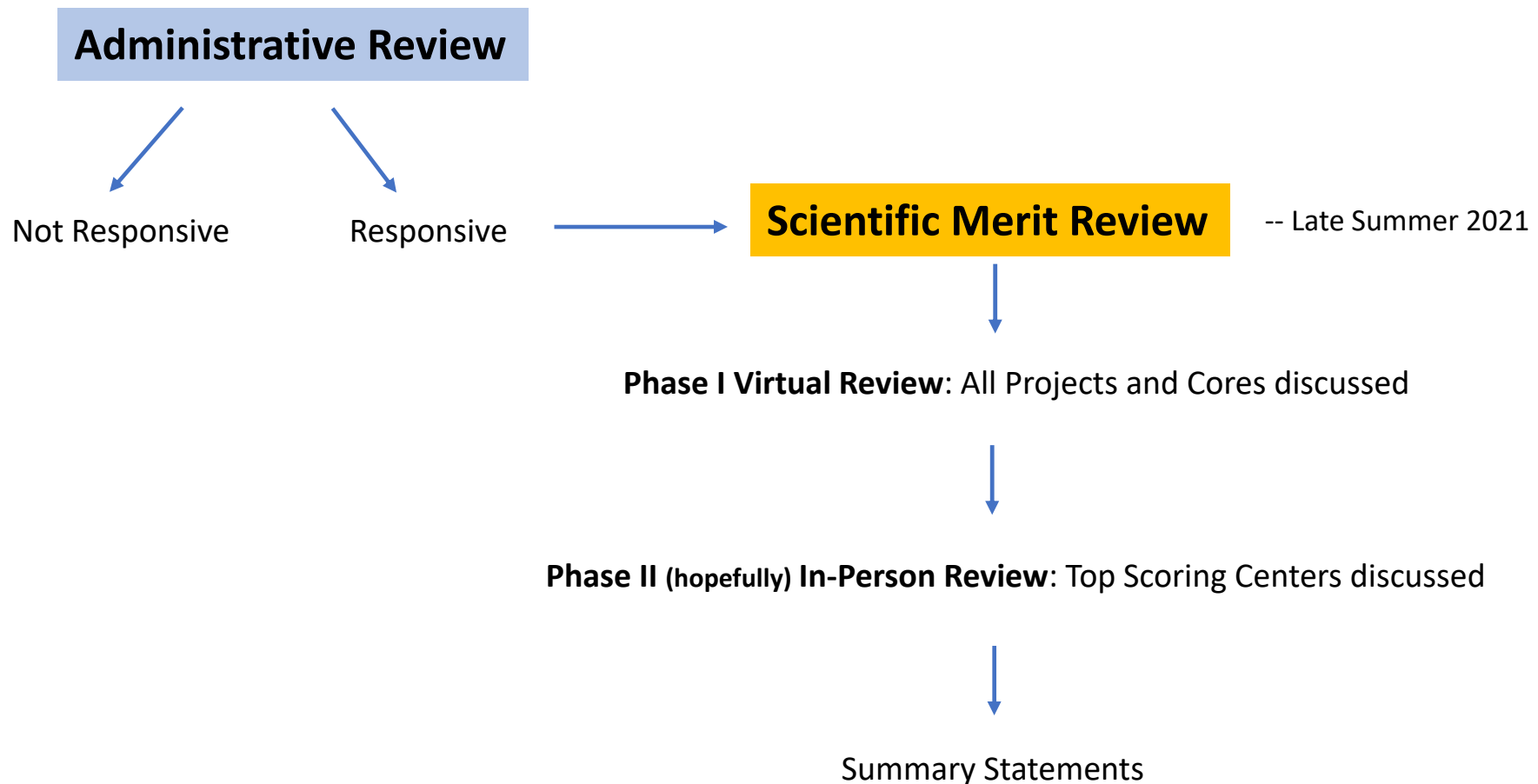
Key Dates

Posted Date	September 2, 2020
Open Date (Earliest Submission Date)	January 15, 2021]
Letter of Intent Due Date(s)	January 15, 2021
Application Due Date(s)	February 15, 2021
All applications are due by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on the listed date(s). 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.	
AIDS Application Due Date(s)	Not Applicable
Scientific Merit Review	July 2021
Advisory Council Review	January 2022
Earliest Start Date	April 1, 2022

Application Due Date = Feb 15, 2021

LAST CALL!

Application ^ Due Date = Feb 15, 2021



Letter of Intent

- **Submission of Letter of Intent (LOI):**
 - Assists in review planning
 - Email to **Dr. Laura Thomas** at laura.thomas@nih.gov
 - Requested by **Jan 15, 2021** (not required, but **HIGHLY** recommended)
- **Include in the LOI:**
 - Descriptive title of the Overall Center
 - Brief description of the research proposed in the Center
 - Include the title of each Research Project and Core
 - Name, address, and telephone number of the PD(s)/PI(s)
 - Names of key personnel (Project and Core Leaders)
 - Names of any participating institutions

P42 Peer Review Process

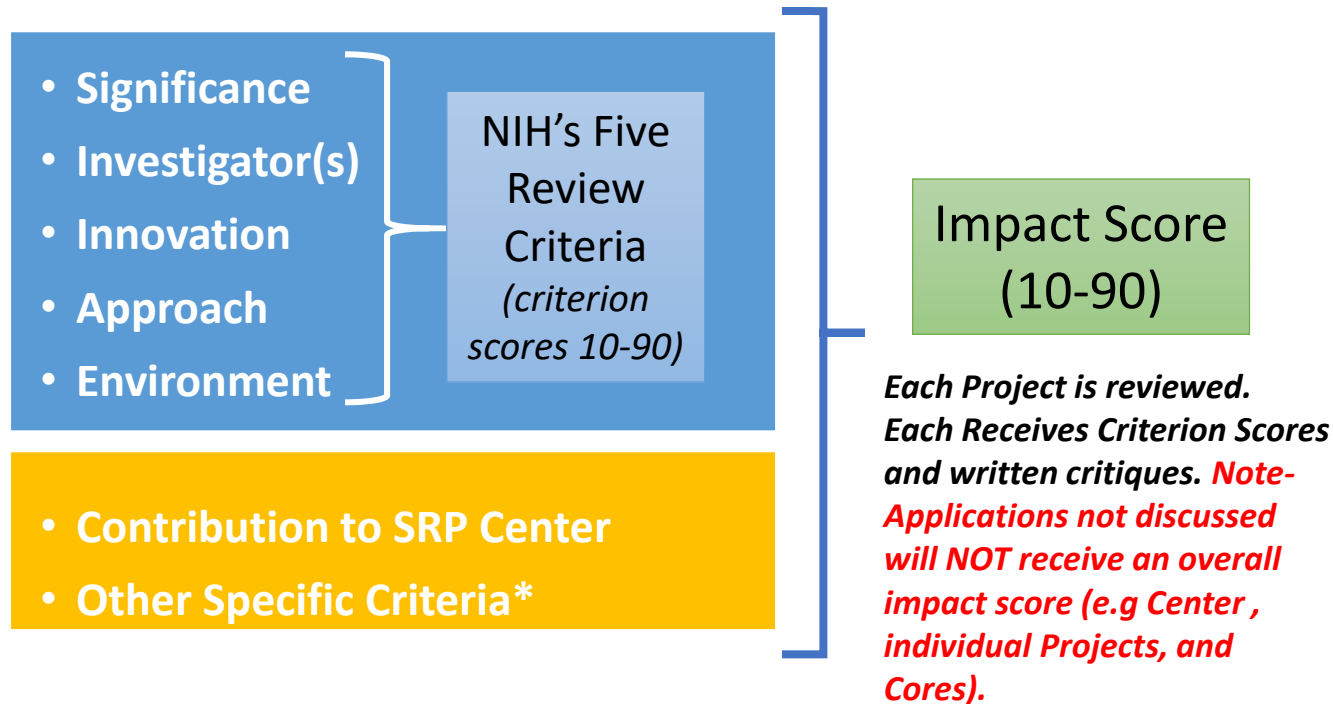
For review criteria please see RFA:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-20-014.html>

1. Review of Projects and Cores

2. Review of Overall Center

Research Projects



***Note:** Human Subjects, Animal Care, and Biohazards can be considered in the overall score. Budget Concerns are not considered in score.

Cores

- **Contribution to SRP Center**
 - **Other Criteria Specific to Each Core**
 - Administrative
 - Data Management and Analysis
 - Community Engagement
 - Research Experience and Training Coordination
 - Research Support
- (see RFA for specific criteria)**

**Impact Score
(10-90)**

Overall Center

Significance

Investigators

Innovation

Approach

Environment

Addl. Review Criteria

Integration of the Center

Final Score
(Range: 10-90)

Helpful Hints

- Read and understand the Funding Announcement
- Contact Program Staff for clarification of scientific matters and Grants Management Staff for budget issues.
- Follow the guidelines: page limits, font size, and so forth
- Start early.....because:
 - ✓ Any mistakes made with electronic submission (i.e., ASSIST) may cause your application to be returned.

Grantsmanship Issues

- **Be clear and concise....don't expect reviewers to "know what you mean."**
- **All the components are important. One weak research project will impact the overall score. Extraneous or unnecessary cores will reduce cohesiveness of the center.**
- **Too many projects...application sinks under its own weight.**
- **Inadequate time allowed to prepare application.**

Resources

RFA Webpage

<http://www.niehs.nih.gov/research/supported/srp/funding/rfa/index.cfm>

Also see “Current P42 Grantees:”

<http://tools.niehs.nih.gov/srp/programs/index267.cfm>

Thank you! Questions?

Laura Thomas, PhD, SRO

Laura.Thomas@nih.gov

984-287-3328

Sharmice Outen, ESA

Sharmice.Outen@nih.gov

984-287-3299

Alfonso R. Latoni, PhD, Chief of NIEHS Scientific Review Branch

Alfonso.Latoni@nih.gov

984-287-3279

NIEHS Grants Management

Jenny Greer

Budget Resources

- Funding Opportunity Announcement
- Prepare the Application using ASSIST:
<https://grants.nih.gov/grants/how-to-apply-application-guide/prepare-to-apply-and-register/submission-options/assist.htm>
- Webinar for Applicants: Electronic Submission Process of Multi-Project Applications
https://grants.nih.gov/grants/webinar_docs/webinar_20130813.htm
- Application Forms: <https://grants.nih.gov/grants/forms/all-forms-and-formats.htm#cga>
- Multi-Component Application Forms Instructions:
<https://grants.nih.gov/grants/how-to-apply-application-guide.html>
- Allowable and Unallowable Costs:
https://grants.nih.gov/grants/policy/nihgps/HTML5/section_7/7.9_allowability_of_costs_activities.htm
- Salary Cap: https://grants.nih.gov/grants/policy/salcap_summary.htm
- NIH Grants Policy Statement:
<https://grants.nih.gov/policy/nihgps/index.htm>

Budget Preparation

Non-Modular

Multi-Component

Provide detailed categorical budgets

- Each Project
- Each Core
- Each Subaward/Consortium (Note: NIEHS does not allow Subawards on Subawards)

Escalation

Budgets submitted in subsequent years may request an escalation on recurring direct costs. (Note: Currently NIH does provide an escalation in subsequent years)

Must be justified:

- Is the amount of escalation requested supported by institutional policies?
- Is the amount clearly stated?

Travel to Annual Meeting

Administrative Core Budget: Annual SRP Grantee Meetings: Funds for travel by required staff (see RFA) to attend the Superfund Research Program three-day annual meeting shall be included in the Administrative Core's budget for each year.

Escalation in outyears will be removed at the time of award.

Budget Preparation

- Direct Costs
 - Consideration of *equipment* in the out-years will be based upon justification and availability of funds
- Subawards/Consortium
 - must follow same guidelines as parent; budget pages **are** required and should follow associated project or core
 - Subawards/consortium direct costs are included in the parent grant Subtotal Direct Costs, which may be subject to budget caps
 - **F&A of subawards/consortium is included in Total Direct Costs of parent grant, but will not count against budget cap (\$1.75M Direct Cost)**
- Budget Justifications (Be detailed and specific)
 - Are all costs itemized?
 - Are all additions and changes in subsequent/future years fully justified and identified clearly; specifically changes in personnel effort?

Budget pages required for parent site, each component, and all consortium sites

OMB Number: 4040-0001
Expiration Date: 06/30/2011

* ORGANIZATIONAL DUNS: Use DUNS of organization responsible for the component.

Enter name of Organization:

* Start Date: * End Date: Budget Period 1

Every Sr./Key listed must have measurable effort in either Calendar Months or a combination of Academic and Summer Months.

A. Senior/Key Person												
Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary (\$)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)
1.					Project Lead							
2.												
3.												
4.												
5.												
6.												
7.												
8.												

Role should reflect the Sr/Key persons role on the specific component.

Base Salary can be left blank for submission, but is required prior to award.

9. Total Funds requested for all Senior Key Persons in the attached file

Total Senior/Key Person

Additional Senior Key Persons:

[Add Attachment](#)

Delete Attachment

[View Attachment](#)

If more than 100 Sr./Key, use attachment and enter total funds requested for additional Sr./Key persons.

* Number of Personnel

* Project Role

Cal.
MonthsAcad.
MonthsSum.
Months

* Requested Salary (\$)

* Fringe Benefits (\$)

* Funds Requested (\$)

☐ Post Doctoral Associates

☐ Graduate Students

Undergraduate Students

☐ Secretarial/Clerical

Aggregate information should be provided in section B. More detailed information should be provided in Budget Justification.

--	--

Total Number Other Personnel

Total Number Other Personnel

Total Other Personnel

Total Salary, Wages and Fringe Benefits (A+B)

R&R Budget Sections A & B

Personnel separated into 2 sections:

- **A. Senior/Key Person**

- First field must be completed, even if person on a component given role of “Project Leader” and not PD/PI

- **B. Other Personnel**

- Postdocs, Grad Students, Undergrads: Only number of personnel required (not specific names)

*Include only personnel employed by (e.g., receiving salary from) your organization.

Close Form

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

* ORGANIZATIONAL DUNS:

* Budget Type: ☐ Project ☐ Subaward/Consortium

Enter name of Organization:

* Start Date: * End Date: Budget Period 1

C. Equipment Description

List items and dollar amount for each item exceeding \$5,000

Equipment item	* Funds Requested (\$)
1. <input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>
6. <input type="text"/>	<input type="text"/>
7. <input type="text"/>	<input type="text"/>
8. <input type="text"/>	<input type="text"/>
9. <input type="text"/>	<input type="text"/>
10. <input type="text"/>	<input type="text"/>
11. Total funds requested for all equipment listed in the attached file	<input type="text"/>
Total Equipment	<input type="text"/>

Itemize up to 100 pieces of equipment. If more, include total dollars in line 11 and provide details in the Additional Equipment attachment

Additional Equipment:

D. Travel

	Funds Requested (\$)
1. Domestic Travel Costs (Incl. Canada, Mexico and U.S. Possessions)	<input type="text"/>
2. Foreign Travel Costs	<input type="text"/>
Total Travel Cost	<input type="text"/>

E. Participant/Trainee Support Costs

	Funds Requested (\$)
1. Tuition/Fees/Health Insurance	<input type="text"/>
2. Stipends	<input type="text"/>
3. Travel	<input type="text"/>
4. Subsistence	<input type="text"/>
5. Other <input type="text"/>	<input type="text"/>
<input type="text"/> Number of Participants/Trainees	Total Participant/Trainee Support Costs <input type="text"/>

Should be blank for P42

**R&R Budget
Sections C - E**

R&R Budget Sections C - E

- **Item D, Travel**
 - 424 form differentiates between foreign and domestic travel

R&R Budget Sections F - K

Close Form

RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 1

Next Period

* ORGANIZATIONAL DUNS:

* Budget Type: ☐ Project ☐ Subaward/Consortium

Enter name of Organization:

Delete Entry

Start Date: * End Date: Budget Period 1

F. Other Direct Costs

1. Materials and Supplies

2. Publication Costs

3. Consultant Services

4. ADP/Computer Services

5. Subawards/Consortium/Contractual Costs

6. Equipment or Facility Rental/User Fees

7. Alterations and Renovations

8.

9.

10.

Total Other Direct Costs

Funds Requested (\$)

G. Direct Costs

Total Direct Costs (A thru F)

Funds Requested (\$)

H. Indirect Costs

Indirect Cost Type

Indirect Cost Rate (%)

Indirect Cost Base (\$)

* Funds Requested (\$)

1.

2.

3.

4.

Total Indirect Costs

Cognizant Federal Agency

(Agency Name, POC Name, and POC Phone Number)

I. Total Direct and Indirect Costs

Total Direct and Indirect Institutional Costs (G + H)

Funds Requested (\$)

J. Fee

Funds Requested (\$)

K. * Budget Justification

Add Attachment

Delete Attachment

View Attachment

(Only attach one file.)

Subaward/Consortium/Contractual Cost not pre-populated. Include both Total Direct and Indirect cost – please make sure it matches what is in the sub's detailed budget

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RESEARCH & RELATED Budget (F-K) (Funds Requested)

R&R Budget Sections F-K

- **Tuition remission**
 - Include in Item F, Other Direct Costs (boxes 8, 9 or 10)
- **Supplies**
 - Included as line F.1 (Other Direct Costs: Materials and Supplies)
- **Alteration and Renovations**
 - Included as line F.7 (Other Direct Costs: Alterations and Renovations)
- **Inpatient and Outpatient Care Costs**
 - Current instructions require inserting in fields F.8-F.10 (Other Direct Costs: Other Costs)

Cumulative budget is automatically calculated based on budget period data provided.

RESEARCH & RELATED BUDGET - Cumulative Budget

		Totals (\$)
Section A, Senior/Key Person		<input type="text"/>
Section B, Other Personnel		<input type="text"/>
Total Number Other Personnel	<input type="text"/>	
Total Salary, Wages and Fringe Benefits (A+B)		<input type="text"/>
Section C, Equipment		<input type="text"/>
Section D, Travel		<input type="text"/>
1. Domestic	<input type="text"/>	
2. Foreign	<input type="text"/>	
Section E, Participant/Trainee Support Costs		<input type="text"/>
1. Tuition/Fees/Health Insurance	<input type="text"/>	
2. Stipends	<input type="text"/>	
3. Travel	<input type="text"/>	
4. Subsistence	<input type="text"/>	
5. Other	<input type="text"/>	
6. Number of Participants/Trainees	<input type="text"/>	
Section F, Other Direct Costs		<input type="text"/>
1. Materials and Supplies	<input type="text"/>	
2. Publication Costs	<input type="text"/>	
3. Consultant Services	<input type="text"/>	
4. ADP/Computer Services	<input type="text"/>	
5. Subawards/Consortium/Contractual Costs	<input type="text"/>	
6. Equipment or Facility Rental/User Fees	<input type="text"/>	
7. Alterations and Renovations	<input type="text"/>	
8. Other 1	<input type="text"/>	
9. Other 2	<input type="text"/>	
10. Other 3	<input type="text"/>	
Section G, Direct Costs (A thru F)		<input type="text"/>
Section H, Indirect Costs		<input type="text"/>
Section I, Total Direct and Indirect Costs (G + H)		<input type="text"/>
Section J, Fee		<input type="text"/>

R&R SUBAWARD BUDGET ATTACHMENT(S) FORM

If submitting an application with >30 subaward budgets, budgets 31 and above should be converted to PDF and included as part of the Budget Justification of the parent budget in Section K of the R&R Budget form.

The sum of all subaward budgets (e.g., those attached separately on this form and those provided as part of the budget justification), must be included in Line F.5 Subawards/Consortium/Contractual Costs of the parent budget.

When submitting subaward budgets that are not active for all periods of the project, fill out the subaward R&R Budget form and include only the number of periods for which the subaward is active. The budget period start/end dates reflected in each period of the subaward should match the project budget period start/end dates that correspond to the active periods.

ASSIST provides the ability to add up to 30 subaward budgets per component using the SF424 RR budget form. ASSIST will automatically include the subawards with the application so there is no need to attach them as separate files.

Just-in-Time

Form Pages, Approvals, Other Support, Notices

Required Approvals

IACUC Approval (Vertebrate Animals)

IRB Approval (Human Subjects)

Begin process at time of application, but final approval must be in place prior to award

Other Support

“0%”, “Varies”, “As Needed”, etc., are not acceptable

Total time commitment cannot exceed 12 calendar months

*Just in Time: Request for information required prior to award.

Resources

- Applying Electronically to Multi-project Applications:
 - http://grants.nih.gov/grants/ElectronicReceipt/com_index.htm
- Help with ASSIST
 - <https://grants.nih.gov/grants/how-to-apply-application-guide/prepare-to-apply-and-register/submission-options/assist.htm>
- NIH Biographical Sketch Format:
 - <https://grants.nih.gov/grants/guide/notice-files/not-od-16-080.html>
- NIH Guidance on Rigor and Reproducibility: -
 - <http://grants.nih.gov/reproducibility/index.htm>

eRA Commons - <https://commons.era.nih.gov/commons/index.jsp>

Registered PD/PIs can check assignment/contact information, review outcome, and other important information.

eRA Commons Help Desk:

Hours: Mon-Fri, 7AM-8PM EDT/EST; Web: <http://grants.nih.gov/support/>; Toll-free: 1-866-504-9552. Phone: 301-402-7469

P42 Multi-Project Centers

- **Submit Application EARLY!!!**

- **NIEHS Contacts on RFA**

Program Officers (contacts for initial consultation):

- Danielle Carlin (danielle.carlin@nih.gov)
- Michelle Heacock (HeacockM@niehs.nih.gov)
- Heather Henry (henryh@niehs.nih.gov)

SRP Director William Suk (suk@niehs.nih.gov)

SRP Health Specialist, Brittany Trottier (brittany.trottier@nih.gov)

Scientific Review Officer, Laura Thomas, NIEHS (Laura.Thomas@nih.gov)

Grants Management Chief, Jenny Greer, (jenny.greer@nih.gov)



QUESTIONS??

Thank You!

Acknowledgements:
EPA's CLU-In.org
Jean Balent, EPA TIFSD
Kerri Moran Voelker, MDB, Inc.

Questions not covered during seminar will be answered off-line and posted on P42 Funding Opportunity Webpage:

<http://www.niehs.nih.gov/research/supported/dert/programs/srp/funding/rfa/index.cfm>

Audio Archive will be available soon and accessible from the above website.