Welcome to the CLU-IN Internet Seminar

Superfund Research Program Funding Opportunities

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

Presenters:
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Superfund Research Program Funding Opportunity Web Seminar:

R41-44 Small Business Grants (SBIR/STTR) and P42 Multi-Project Centers

Presenters:
William A. Suk, SRP Director
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Leroy Worth, NIEHS Scientific Review Officer
Lisa Edwards, NIEHS Grants Management Specialist

NIEHS National Institute of Environmental Health Sciences

January 17, 2012

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Srp Superfund Research Program

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Agenda

- 2:00 Webinar Instructions
- 2:10 Introduction to Superfund Research Program and SARA Mandates
- 2:15 Small Business (SBIR/STTR, R41-R44) Funding Opportunities
- 2:30 Multi-Project Centers (P42) Funding Opportunities
  - SRP Program Staff (New for 2011 RFA)
  - Scientific Review Process
  - Grants Management (Budgets, Applications, Forms)
- 3:15 Question / Answer

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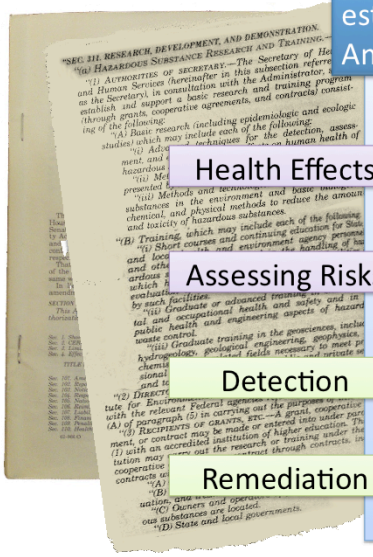
SRP Mandates under SARA



University-based basic research program established in 1986 under Superfund Amendments 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

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SRP Strategic Plan (2010)

- Relevance
  - Interaction with stakeholders
  - Problem-based, solution-oriented research
  - Critical research areas
- Impact
- Innovation

SRP Stakeholders

Sister Superfund Programs:

- US Environmental Protection Agency (EPA)
- Agency for Toxic Substances and Disease Registry (ATSDR)

Others: federal agencies, state, local, and tribal entities responsible for sites; individuals and communities living near hazardous waste sites

http://tools.niehs.nih.gov/srp/about/Strategic%20Plan.pdf

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SRP: Hazardous Substances Detection and Remediation Program

SMALL BUSINESS INNOVATIVE RESEARCH (R43-44)

SBIR: Stimulate technological innovation in the private sector

SMALL BUSINESS TECHNOLOGY TRANSFER RESEARCH (R41-42)

STTR: Stimulate innovation through private sector partnerships with non-profit research institutions

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SBIR / STTR

Helpful Tips

- Two Topic Areas:
  - Detection Technologies
  - Remediation Technologies

Emphasis on sustainable technologies

Priority on technologies applicable to Superfund / RCRA Remediation / Monitoring needs.

Topics of Interest (January 2011)
http://www.niehs.nih.gov/research/supported/programs/sbir/topics/hwaerp/index.cfm

- Two Phases
  - Phase I: technical/scientific merit and feasibility
  - Phase II: continue the research or R&D, commercialization plan

Three Receipt Dates

April 5, August 5

December 5

	SBIR	STTR
Phase I	**R43 $150K, ≤ 6 mos**	**R41 $100K, ≤ 1 yr**
Phase II	**R44 $1M, ≤ 2 yrs**	**R42 $750K, ≤ 2 yrs**

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SBIR / STTR

- Read the Program Announcements

  SBIR Announcement: http://grants.nih.gov/grants/guide/pa-files/PA-11-096.html

  STTR Announcement: http://grants.nih.gov/grants/guide/pa-files/PA-11-097.html

  Carefully Address all Review Criteria (Section V of the Program Announcements)

- Registration/Application:
  - Must be registered (allow > 4 weeks):
    - Grants.gov: http://www.grants.gov/applicants/get_registered.jsp
    - eRA Commons: http://era.nih.gov/ElectronicReceipt/preparing.htm
  - Include a cover letter with application:
    - Intent to respond to the NIEHS Hazardous Substances Detection and Remediation Program announcement.
    - You may specify your preferred Review Study Section: http://public.csr.nih.gov/StudySections/SmallBusinessTechnologyTransfer/Pages/default.aspx
  - Be Aware of New Notices from NIH:
    - NIH SBIR/STTR Notices: http://grants1.nih.gov/grants/funding/sbir.htm

Are you a Small Business?
http://sba.gov/size

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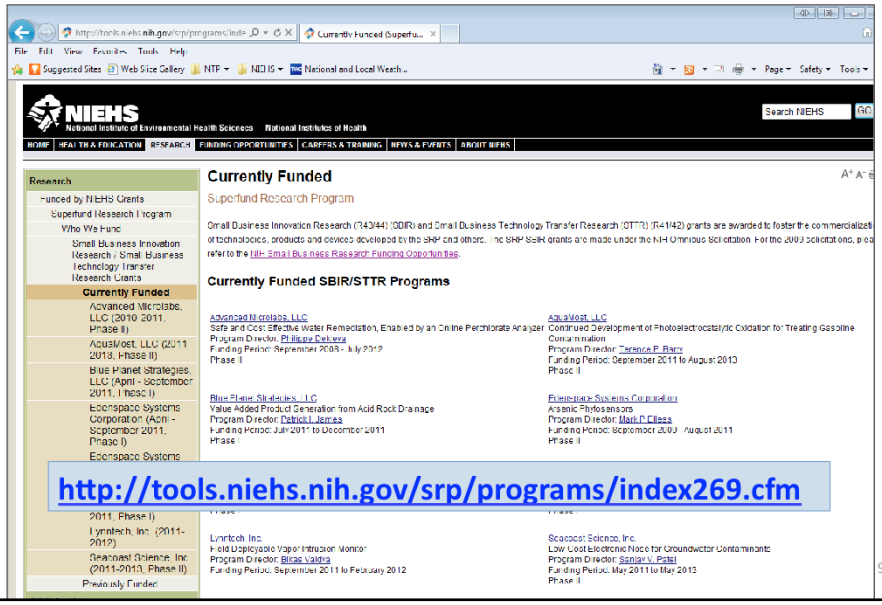
Current SRP SBIR / STTR Grantees



Who to Contact?

NIEHS Contact for SRP SBIR/STTR:
Heather Henry, henryh@niehs.nih.gov, (919) 541-5330

Other NIEHS SBIR/STTR Programs:
http://www.niehs.nih.gov/funding/grants/mechanisms/sbir/

Daniel Shaughnessy, Ph.D.
Program Administrator
Tel (919) 541-2506
Fax (919) 316-4606
shaughn1@niehs.nih.gov

- Predictive Test Systems for Safety Evaluation Program
- Exposure Biology Program
- Educational & Training Resources Program

Theodore W. Outwater, M.A.
Education Specialist
Tel (919) 541-2972
Fax (919) 541-0462
outwater@niehs.nih.gov

- Worker Education and Training Small Business Opportunities (by solicitation)

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P42 Multi-Project Centers

RFA-ES-12-003
SUPERFUND HAZARDOUS SUBSTANCE RESEARCH AND TRAINING PROGRAM (P42)

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

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

Bring expertise of multiple biomedical and non-biomedical disciplines to address scientific uncertainties facing the National Superfund Program.

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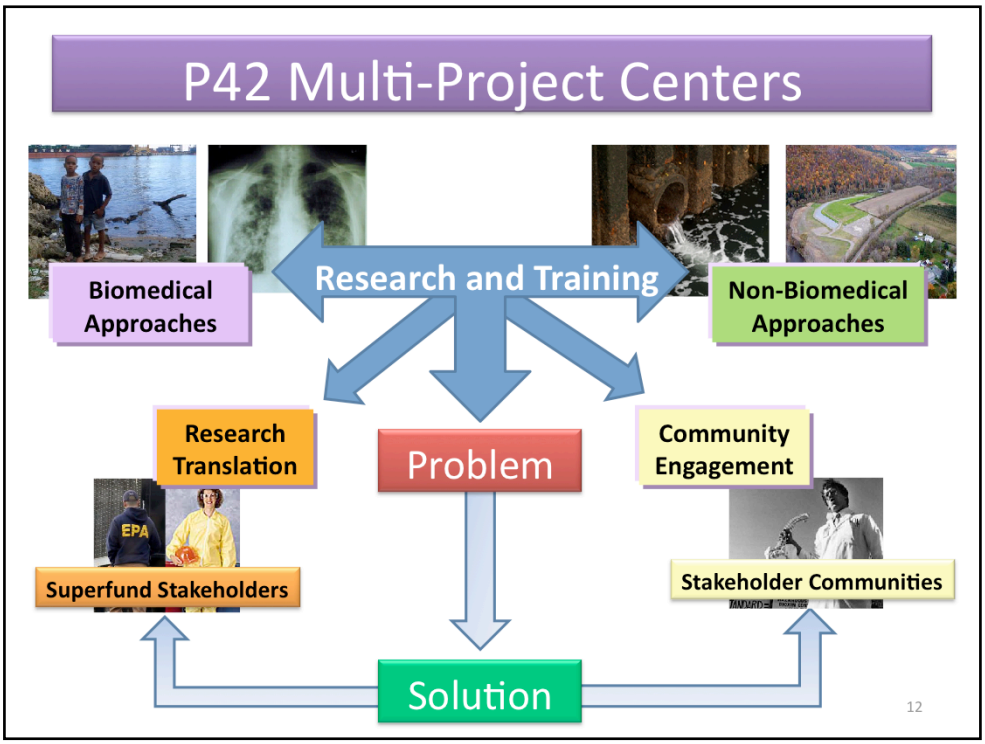
P42 Multi-Project Centers
Biomedical Approaches
Research and Training
Non-Biomedical Approaches
Research Translation
Problem
Community Engagement
EPA
Superfund Stakeholders
Stakeholder Communities
Solution
12

P42 Multi-Project Centers

Scope of Research

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

Suggested Research Topics: High priority areas for EPA/ ATSDR colleagues

Programmatic Balance (See Current Grantees: http://tools.niehs.nih.gov/srp/programs/index267.cfm)

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

Strategic Plan

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

Not Required: Superfund Site; CERCLA Substance

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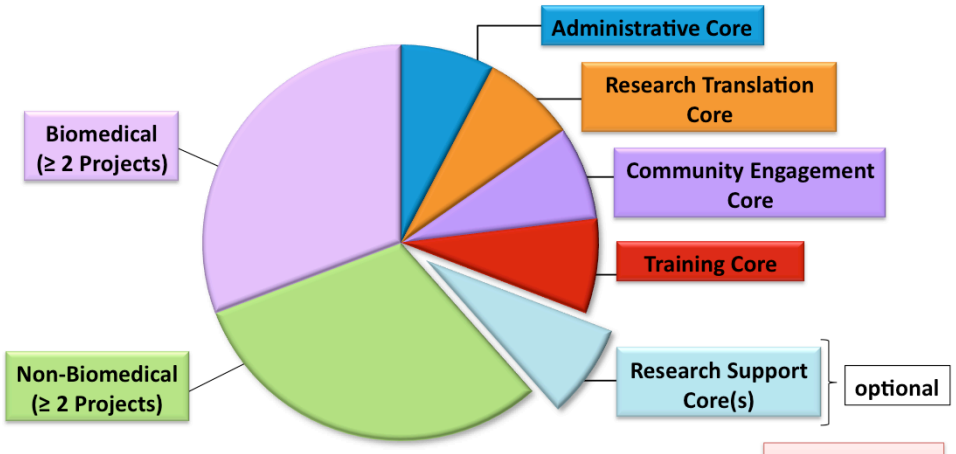
P42 Multi-Project Centers

All Components Interacting, Addressing Problem



Total: 8 - 12 Components

New Proposals: up to $1.7M/year direct costs for 4 years
Renewal Proposals: up to $2.1M/year direct costs for 5 years

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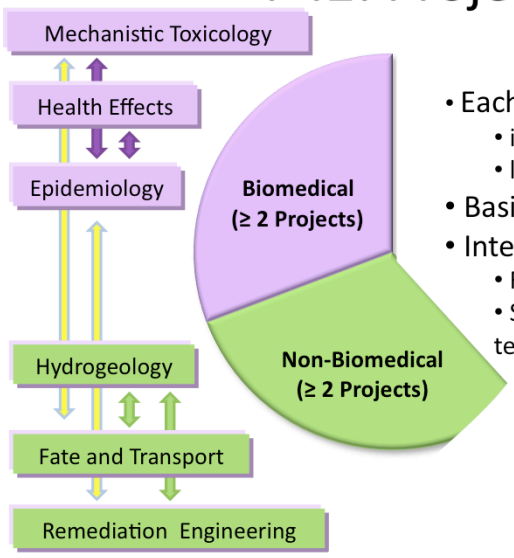
P42: Projects



- Each project is stand-alone
  - independent testable hypothesis
  - logical progression of tasks
- Basic to application - oriented
- Integration with other projects
  - Research Aims
  - Sharing: data, specimens, technology
- Interaction with Cores
  - Training, Community Engagement
  - Research Translation!!

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P42: Projects

FOCUS!!!!
Centers should be VERY judicious in assembling research projects. Center should, with projects, keep a clear focus and not try to do too much!!

Include projects with most solid connection to the Center's problem-solving theme.

Lean Times: Not too big! Come in under budget, well under 12-component limit.

Especially True for New Center Proposals!

Interactions:
Cross-reference interactions between projects and cores. Should be consistent throughout.

Abstract / Titles – Avoid Jargon
- P42 Reviewers have broad expertise
- Write abstracts/titles for a general audience
- Write Specific Aims for technical experts
- http://grants.nih.gov/grants/plain_language.htm

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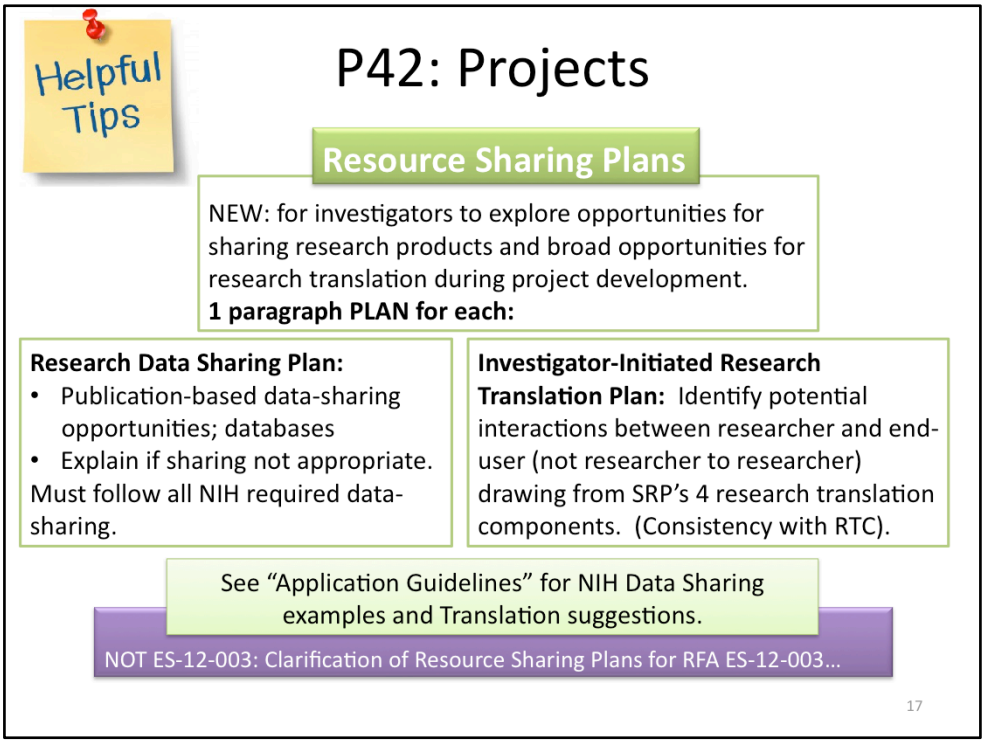
Helpful Tips
P42: Projects
Resource Sharing Plans
NEW: for investigators to explore opportunities for sharing research products and broad opportunities for research translation during project development.
1 paragraph PLAN for each:
Research Data Sharing Plan:
• Publication-based data-sharing opportunities; databases
• Explain if sharing not appropriate.
Must follow all NIH required data-sharing.
Investigator-Initiated Research Translation Plan: Identify potential interactions between researcher and end-user (not researcher to researcher) drawing from SRP's 4 research translation components. (Consistency with RTC).
See "Application Guidelines" for NIH Data Sharing examples and Translation suggestions.
NOT ES-12-003: Clarification of Resource Sharing Plans for RFA ES-12-003…
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P42: Administrative Core (Required)

Administrative Core (AC) Functions
- Planning and coordination
- Promote cross-discipline interaction
- Ensure research translation
- Oversee fiscal and quality management

External Advisory Committee (EAC)
- Provides Guidance to Director
  - Scientific Merit
  - Relevance, Integration
  - Research Translation, Community Engagement, Training activities

Anticipated EAC Members*
Academics *(biomedical AND non-biomedical)*, Stakeholders, EPA/ATSDR, Industry, Community

AC Breaks Silos
- Between Disciplines
- Basic to Applied
- Lab to End-user

AC Promotes Careers
Trainees, Early Stage Investigators, **Succession Planning??**

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

Not to exceed $150,000 Direct Costs

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Research Translation Core (Required)

Research Translation Core Function:

Communicating and facilitating the use of research findings emanating from the program in the manner most appropriate for their application and the advancement of research objectives.

Include Plan for Four Components

1. **Communication**
2. **Government Partnerships**
3. **Technology Transfer**
4. **Information Dissemination**

Note: SRP Research Translation – much broader scope than NIH's Clinical Translation (bench to bedside).

Information from Center to Center as well as Center outward (to all end-users)

Plan for Reporting News to SRP: http://tools.niehs.nih.gov/srp/resources/rtc.cfm

Not to exceed $150,000 Direct Costs

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Research Translation Core (RTC)

1. Communicating within SRP
a. Project-Specific: Within Center
b. Center-Specific: Center Out
c. Between Center/SRP
d. Between Centers

Expertise: staff with experience in diverse science topics.

RTC – work with investigators on research translation plan for each project (clusters of projects).

2. Partnerships with Government Agencies

EPA/ATSDR a priority, but not a requirement.

Where to start?
- SRP's Additional Resources Webpage*
- Find your EPA Region's Superfund Technical Liaison / ATSDR staff
- Superfund Site Remedial Project Manager

4. Information Dissemination to Other End-Users

End-Users: formal/informal education groups, hazardous waste practitioners, lay public, other academic researchers

Examples: Educational materials, Web sites, webinars, "outreach," etc.

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

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Community Engagement Core (Required)

Community Engagement Core Function:

To enhance knowledge exchange and to support community needs with regard to the science emanating from the Center

Target communities

SRP defines target communities as those impacted by sites contaminated with hazardous substances.

- **Members of the affected community**
- **May also include:** local government, tribal councils, community service groups, non-governmental organizations

HIGHLIGHT **"Bidirectionality"** between community and Center

A *Community Engagement Component Statement* must be included in application. *(See Application Guidelines)*

Where to start?

- SRP Additional Resources Webpage*
- Community Engagement Information*

Not to exceed $100,000 Direct Costs

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

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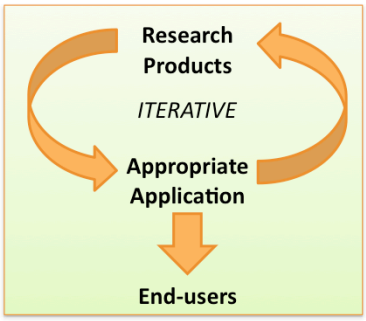
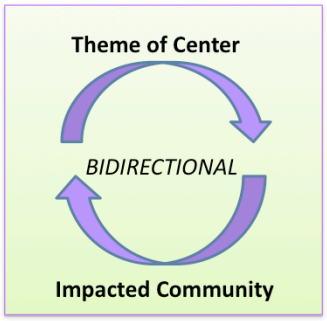
Research Translation

Community Engagement

Shared Challenge: Finding the most Appropriate End-User / Community Group for Center Research and Activities





- Initiated by the Center (RTC/ Investigator)
- Based on research "product"
- Opportunistic and Rapid Response
- Critical role reporting successes

- Partnership-driven
- Finite/Defined Activities
  - Provide access to expertise or conduct community-based projects

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Training Core (Required)

Training Core Function:
Graduate and Post-doctoral level cross-disciplinary training

- Promote interactions between biomedical and non-biomedical trainees
- Professional development
- Communicating research effectively
- Involvement in Research Translation, Community Engagement, etc.
- Achieves program integration

Inquiring Reviewers want to know:
- Recruitment?
- Past trainee successes

Cost Limitations:
- New Applicants: $100,000 Direct Costs
- Renewal Applicants: $125,000 Direct Costs

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P42: Research Support Core (Optional)

- **Research Support Core**
  - **Provides centralized services**
  - **Shared by at least 2 projects**

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

If Research Support Core is not included, project should adequately detail research support activities (e.g. QA/QC)

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New to this RFA (P42 Centers)

- **Total Projects and Cores limited to 12 Components**
- **Training Cores required**
- **Research Support Cores optional**

Resource Sharing Plan for Projects

Please see: NOT-ES-12-003:
http://grants.nih.gov/grants/guide/notice-files/NOT-ES-12-003.html

Review Criteria Changes

- Modifications to overall center description of Significance, Investigator, Innovation, Approach and Environment
- Cores: each core has specific review criteria

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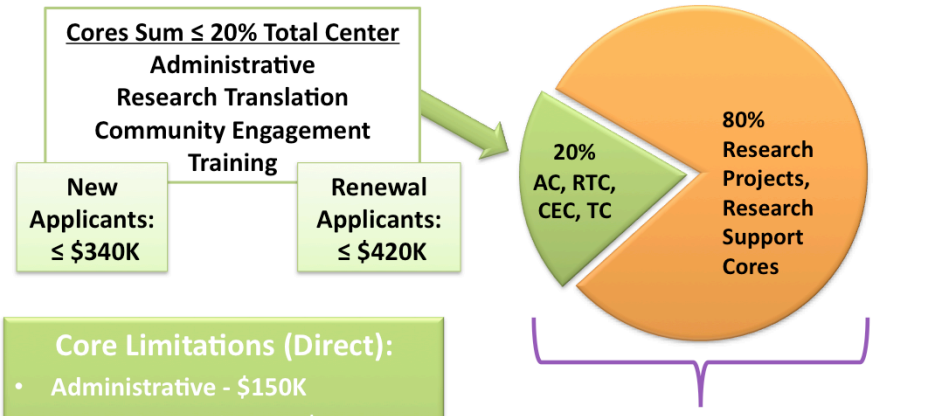
New Cost Limitations (Direct)



Core Limitations (Direct):

- Administrative - $150K
- Research Translation - $150K
- Community Engagement - $100K
- Training Cores
  - New applicants: $100K
  - Renewal applicants: $125K

Center:

New Applicants: up to $1.7M/year direct costs for 4 years

Renewal Applicants: up to $2.1M/ year direct costs for 5 years

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Other Recent Changes

- Research Translation Core
  - Translation plan for each project
- Research Strategy (12 page limit)
- Review Scoring System
- One Resubmission
- Community Engagement
  - Core is Required
  - Community Engagement Projects (CEPs)
    - explicitly mentioned (had always been welcome)
    - e.g. community-based participatory research (biomedical and non-biomedical)
  - New: *"Community Engagement Component Statement"* section for CEC and CEPs.

Unchanged Characteristics

- Not a site-specific program
- Basic to application-oriented research
- Innovative approaches to research

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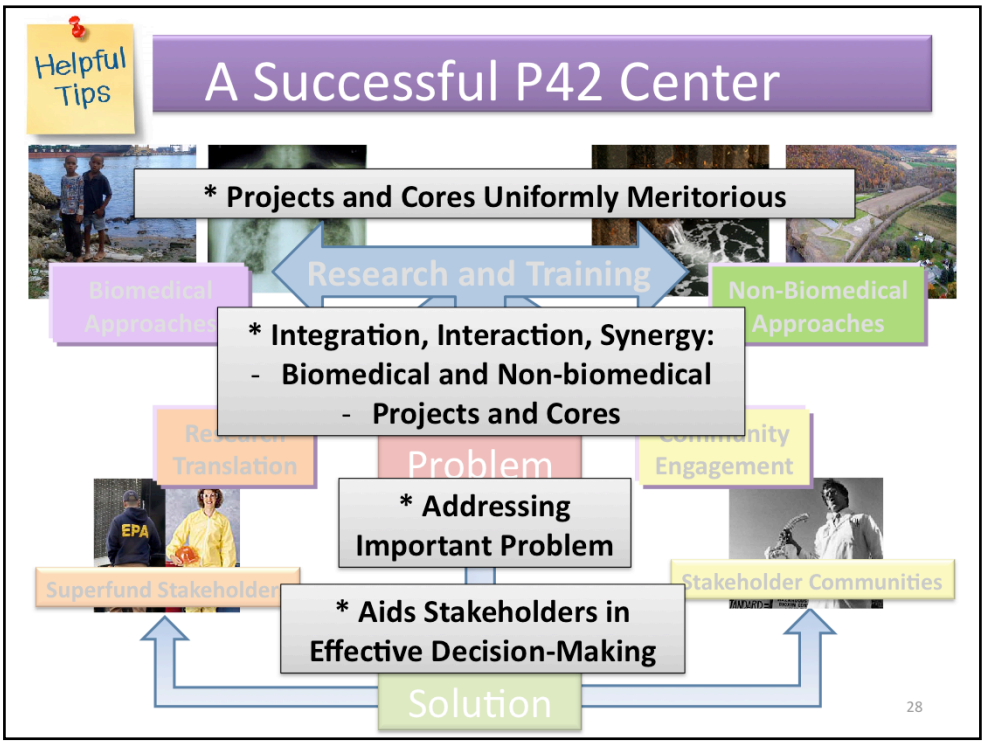
Helpful Tips
A Successful P42 Center
* Projects and Cores Uniformly Meritorious
Research and Training
Biomedical Approaches
Non-Biomedical Approaches
* Integration, Interaction, Synergy:
- Biomedical and Non-biomedical
- Projects and Cores
Translation
Problem
Engagement
* Addressing Important Problem
EPA
Superfund Stakeholders
Stakeholder Communities
* Aids Stakeholders in Effective Decision-Making
Solution
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Review

NIEHS SCIENTIFIC REVIEW

LEROY WORTH, PHD (2012 P42 REVIEW)

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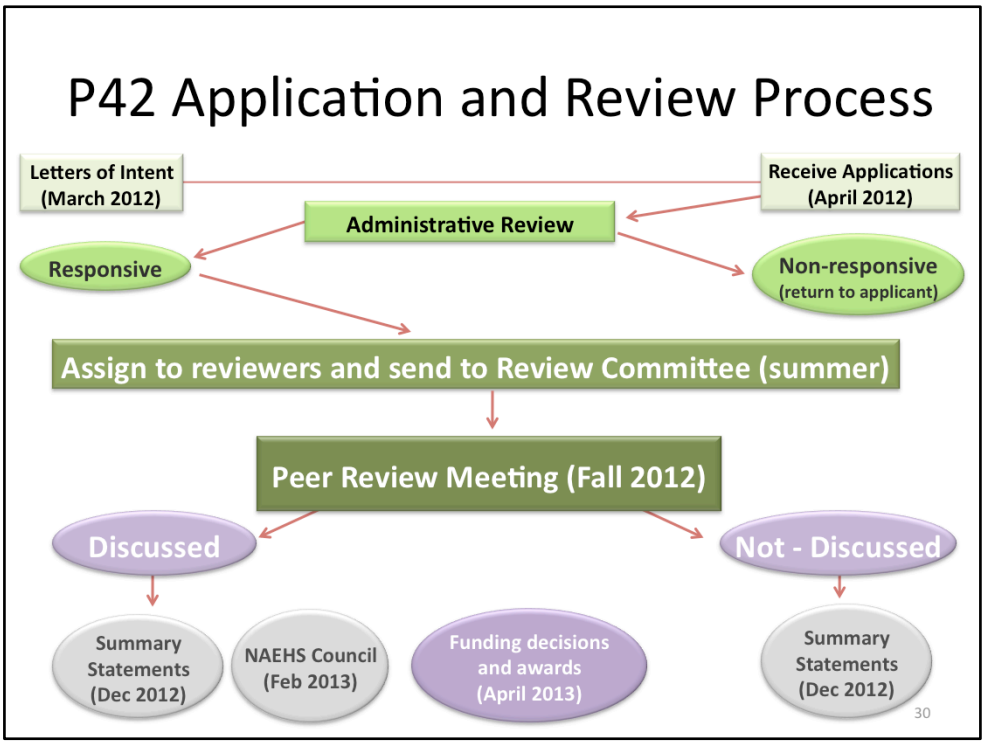
P42 Application and Review Process
Letters of Intent (March 2012)
Receive Applications (April 2012)
Administrative Review
Responsive
Non-responsive (return to applicant)
Assign to reviewers and send to Review Committee (summer)
Peer Review Meeting (Fall 2012)
Discussed
Not - Discussed
Summary Statements (Dec 2012)
NAEHS Council (Feb 2013)
Funding decisions and awards (April 2013)
Summary Statements (Dec 2012)
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P42 Application and Review Process

- Letters of Intent (not required)
  - Assists in review planning
  - Descriptive title of proposed research
    - Overall Center
    - Each Project / Core !!!
  - Name, address, and telephone number of the PD(s)/PI(s)
  - Names of other key personnel
  - Participating institutions
  - Number and title of this funding opportunity
- Submission of LOI:
  - Email to Dr. Leroy Worth, worth@niehs.nih.gov
  - **Requested by March 16, 2011 (Not Required)**

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Reviewers' Areas of Expertise, Including….

BIOMEDICAL

- Toxicology (all types)
- Epidemiology
- Pathobiology
- Biostatistics/Bioinformatics
- Molecular Toxicology Design
- Structural/Comparative Biology
- Exposure Assessment
- Molecular Biology
- Genomics/Epigenetics

NON-BIOMEDICAL

- Chemistry
- Geology/Hydrogeology
- Ecology/Ecotoxicology
- Molecular Biophysics
- Microbiology
- Engineering, Materials Science
- Remediation (Bio-, Physical, Chem-)

TRANSLATION & COMMUNITY

- Community-based Research
- Communication, Technology Transfer

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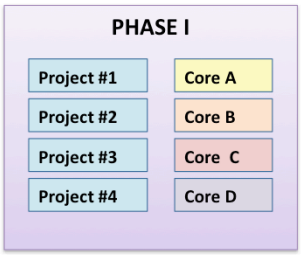
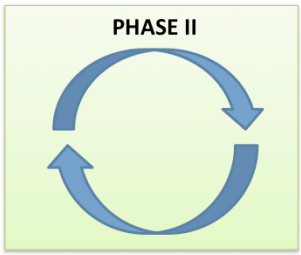
P42 Peer Review Process

- Two Phase Peer Review
  - Phase I: Review of Projects, Cores (in order listed in application)
  - Phase II: Review of Overall Center
- Review Criteria: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-12-003.html#_Section_V._Application



Scientific Merit of Projects/Cores



Impact of Overall Center

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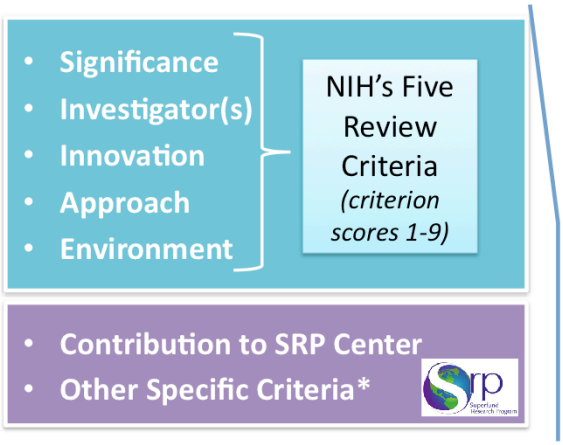
P42: Project Impact Score



*Additional criteria for community engagement research projects

Note: Human Subjects, Animal Care, and Biohazards may be considered in the score. Budget Concerns and Resource Sharing Plans are not considered in score.

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P42: Core Impact Score

- **Contribution to SRP Center**
- **Other Criteria Specific to Each Core**
  - **Administrative**
  - **Research Translation Core**
  - **Community Engagement**
  - **Training**
  - **Research Support Cores**

  (see RFA for specific criteria)

Impact Score (10-90)

Each Core Reviewed Separately.
Each Receive written critique.

Note: Human Subjects, Animal Care, and Biohazards may be considered in the score. Budget Concerns and Resource Sharing Plans are not considered in score.

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Overall Center Impact Score

Addressing a critical problem?

Merit of Projects and Cores? Will provide: data, information, knowledge to stakeholders; rigorous scientific basis for decision making?

Integration: around problem-based, solution-oriented theme.
Interactions: between biomedical and non-biomedical, between projects and cores.
Synergy: whole greater than sum of parts.

Appropriate strategy and "fit" for P42?
PI Leadership? Innovation? Environment?

Final Score (Range: 10-90)

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P42 Multi-Project Centers

Emphasize Integration

- Highlight Interactions in Application:
  - Center Introduction
  - Relation to Overall Center
- Cross-Reference Interactions
  - Within Project/Core Sections
  - Be consistent!

Highlight

- Multi/interdisciplinary, synergy, innovative…
- Explain how "it" fits together as a center
- Exclude weak projects

Plain Language Abstracts

P42 Reviewers – broad expertise…

- Abstracts written for a general audience.
- Specific Aims written for technical experts.

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Reviewers' Perspective:
Recommendations

- Seek appropriate advice
- Organize according to guidelines
- Write application with review in mind
- Address all review criteria
- Be complete but concise
- Discuss accomplishments
- Include potential pitfalls and alternative approaches
- Don't assume reviewers will "know what you mean"
- Presentation / "Grantsmanship"

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Notices

- NOT-OD-11-035: NIH Policy on Late Submission of Grant Applications
- NOT-OD-10-115: Enhancing Peer Review: New NIH Policy on Post-Submission Application Materials
- NOT-OD-12-003: Publication of the Revised NIH Grants Policy Statement (Rev. 10/1/2011): Policy Changes, Clarifications and Document Enhancements
- NOT-OD-11-080: Reminder: Compliance with NIH Application Format and Content Instructions
- NOT-OD-11-021: "Reminder: Policies Affecting Submission of NIH Grant Applications for Due Dates on or after January 25, 2011," all corrections must be complete by the due date for an application to be considered on-time.
- NOT-OD-10-077: Policy Reminder Concerning Appendix Materials for All NIH/AHRQ/NIOSH Grant Applications

NIH NOTICES:
http://grants.nih.gov/grants/guide/search_results.htm?year=active&scope=not

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Components of a Successful Application

- **Good Idea**
- **Good Science**
- **<u>Good Application</u>**

"A well prepared application will not make a bad scientific idea good; however, a poorly prepared application can disguise a good scientific idea."

William Raub, Ph.D. Former Acting Director, NIH

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Budget

NIEHS GRANTS MANAGEMENT

LISA EDWARDS, MBA

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Budget Preparation

Form Pages, Approvals, Other Support, Notices

- Forms (http://grants.nih.gov/grants/forms.htm)
  - P42 – PHS 398, paper
  - SBIR/STTR – SF 424, electronic
- Approvals
  - IACUC Approval (Vertebrate Animals)
  - IRB Approval (Human Subjects)
  - Begin process at time of application, but final approval will be requested for Just In Time*
- Other Support
  - "0%", "Varies", "As Needed", etc., are not acceptable
  - Total percentage cannot equal more than 100%

New Notices

- Revised Grants Policy Statement: NOT-OD-12-003
- Salary caps: NOT-OD-11-073

Just in Time: Request for information prior to award.

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Budget Preparation

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

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Budget Preparation

Applies Only to P42 Budget

Non-Modular

Provide detailed categorical budgets
- Each Project
- Each Core
- Each 3rd Party Participant

ALL Budgets should be together in Part 1 of the application

ALL Budget Pages should be labeled

Escalation

Allowed 2% escalation of *recurring* direct costs per out-year

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:
PI, Business Manager, 4 students

Community Engagement Core Budget:
Core Leader

Research Translational Core Budget:
Core Leader

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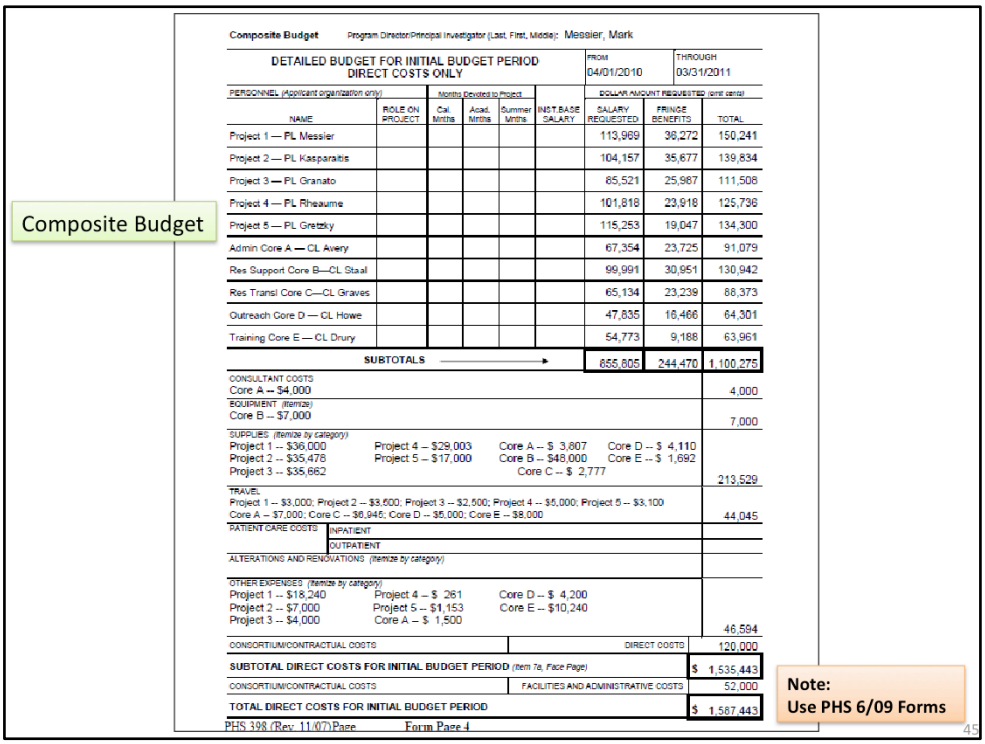
Composite Budget



Composite Budget Program Director/Principal Investigator (Last, First, Middle): Messier, Mark

DETAILED BUDGET FOR INITIAL BUDGET PERIOD
DIRECT COSTS ONLY

FROM 04/01/2010 THROUGH 03/31/2011

PERSONNEL (Applicant organization only) NAME	ROLE ON PROJECT	Months Devoted to Project: Cal. Mnths	Acad. Mnths	Summer Mnths	INST. BASE SALARY	DOLLAR AMOUNT REQUESTED (omit cents): SALARY REQUESTED	FRINGE BENEFITS	TOTAL
Project 1 — PL Messier						113,989	36,272	150,241
Project 2 — PL Kasparaitis						104,157	35,677	139,834
Project 3 — PL Granato						85,521	25,987	111,508
Project 4 — PL Rheaume						101,818	23,918	125,736
Project 5 — PL Gretzky						115,253	19,047	134,300
Admin Core A — CL Avery						67,354	23,725	91,079
Res Support Core B—CL Staal						99,991	30,951	130,942
Res Transl Core C—CL Graves						65,134	23,239	88,373
Outreach Core D — CL Howe						47,835	16,466	64,301
Training Core E — CL Drury						54,773	9,188	63,961
SUBTOTALS →						855,805	244,470	1,100,275

CONSULTANT COSTS
Core A -- $4,000 — 4,000

EQUIPMENT (Itemize)
Core B -- $7,000 — 7,000

SUPPLIES (Itemize by category)
Project 1 -- $36,000; Project 2 -- $35,478; Project 3 -- $35,662; Project 4 -- $29,003; Project 5 -- $17,000; Core A -- $ 3,607; Core B -- $48,000; Core C -- $ 2,777; Core D -- $ 4,110; Core E -- $ 1,692 — 213,529

TRAVEL
Project 1 -- $3,000; Project 2 -- $3,600; Project 3 -- $2,500; Project 4 -- $5,000; Project 5 -- $3,100; Core A -- $7,000; Core C -- $6,945; Core D -- $5,000; Core E -- $8,000 — 44,045

PATIENT CARE COSTS: INPATIENT
OUTPATIENT

ALTERATIONS AND RENOVATIONS (Itemize by category)

OTHER EXPENSES (Itemize by category)
Project 1 -- $18,240; Project 2 -- $7,000; Project 3 -- $4,000; Project 4 -- $ 261; Project 5 -- $1,153; Core A -- $ 1,500; Core D -- $ 4,200; Core E -- $10,240 — 46,594

CONSORTIUM/CONTRACTUAL COSTS — DIRECT COSTS — 120,000

SUBTOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Item 7a, Face Page) — $ 1,535,443

CONSORTIUM/CONTRACTUAL COSTS — FACILITIES AND ADMINISTRATIVE COSTS — 52,000

TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD — $ 1,587,443

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Note:
Use PHS 6/09 Forms

Composite Budget: All Years

Composite Budget Program Director/Principal Investigator (Last, First, Middle): Messier, Mark

BUDGET FOR ENTIRE PROPOSED PROJECT PERIOD
DIRECT COSTS ONLY

BUDGET CATEGORY TOTALS		INITIAL BUDGET PERIOD (from Form Page 4)	ADDITIONAL YEARS OF SUPPORT REQUESTED 2nd	3rd	4th	5th
PERSONNEL: Salary and fringe benefits. Applicant organization only.		1,100,275	1,133,283	1,167,282	1,202,300	1,238,369
CONSULTANT COSTS		4,000	4,120	4,244	4,371	4,502
EQUIPMENT		7,000	0	0	0	0
SUPPLIES		213,529	219,935	226,553	233,329	240,329
TRAVEL		44,045	45,366	46,727	48,129	49,573
PATIENT CARE COSTS	INPATIENT					
	OUTPATIENT					
ALTERATIONS AND RENOVATIONS						
OTHER EXPENSES		46,594	47,992	49,432	50,915	52,442
CONSORTIUM/ CONTRACTUAL COSTS	DIRECT	120,000	104,045	109,162	112,905	116,686
SUBTOTAL DIRECT COSTS (Sum = Item 8e, Face Page)		1,535,443	1,554,741	1,603,379	1,651,949	1,701,901
CONSORTIUM/ CONTRACTUAL COSTS	F&A	52,000	54,103	56,764	58,711	60,677
TOTAL DIRECT COSTS		1,587,443	1,608,844	1,660,143	1,710,660	1,762,578

TOTAL DIRECT COSTS FOR ENTIRE PROPOSED PROJECT PERIOD $ 8,329,668

JUSTIFICATION. Follow the budget justification instructions exactly. Use continuation pages as needed.

Note:
Use PHS 6/09 Forms

Individual Project Budget

Project 1 Program Director/Principal Investigator (Last, First, Middle): Messier, Mark

DETAILED BUDGET FOR INITIAL BUDGET PERIOD
DIRECT COSTS ONLY

FROM: 04/01/2010 THROUGH: 03/31/2011

PERSONNEL (Applicant organization only)

NAME	ROLE ON PROJECT	Months Devoted to Project: Cal. Mnths	Acad. Mnths	Summer Mnths	INST. BASE SALARY	DOLLAR AMOUNT REQUESTED: SALARY REQUESTED	FRINGE BENEFITS	TOTAL
Mark Messier	Principal Investigator	1.8			126,272	18,941	5,166	24,107
Mike Richter	Co-PL	0.6			186,600	9,330	2,357	11,687
Claude Lemieux	Co-PL	0.6			163,964	8,198	2,119	10,317
Jim Thorpe	Post Doc	12			32,000	32,000	10,594	42,594
Jackie Joyner-Kersee	Graduate Assistant	12			20,000	20,000	2,810	22,810
Michael Phelps	Lab Tech	6			25,000	12,500	6,560	19,060
Tonya Harding	Lab Tech	6			26,000	13,000	6,666	19,666
	SUBTOTALS →					113,969	36,272	150,241

CONSULTANT COSTS

EQUIPMENT (Itemize)

SUPPLIES (Itemize by category)
Cell culture reagents and supplies
Molecular biology reagents and testing
Tissue pathology analysis
GC MS chromatography, chemicals and glass ware — 36,000

TRAVEL
PL, postdocs and grad students to attend SRP annual meeting — 3,000

PATIENT CARE COSTS: INPATIENT; OUTPATIENT

ALTERATIONS AND RENOVATIONS (Itemize by category)

OTHER EXPENSES (Itemize by category)
Animal housing
Publication costs
Tuition — 18,240

CONSORTIUM/CONTRACTUAL COSTS | DIRECT COSTS

SUBTOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Item 7a, Face Page) — $ 207,481

CONSORTIUM/CONTRACTUAL COSTS | FACILITIES AND ADMINISTRATIVE COSTS

TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD — $ 207,481

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Note:
Use PHS 6/09 Forms

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P42 Multi-Project Centers

- Announcement:
  - RFA-ES-12-003: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-12-003.html
  - NOT-ES-12-003: http://grants.nih.gov/grants/guide/notice-files/NOT-ES-12-003.html
- Applications Details
  - One application per institution
  - Letters of Intent: March 11, 2012
  - Due Date: April 10, 2012
  - Scientific Review: October, 2012
  - Awards Start Date: April, 2013
- Staff Consultation Highly Recommended (In person or teleconference)

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P42 Resources

- RFA Webpage
  - Application Guidelines – How to put together the application, what to include, etc.
  - Research Topics – Numerous areas of general interest as well as specific needs identified by stakeholders.
  - Additional Resources – Links to EPA, ATSDR, and other helpful websites.
  - Community Engagement Information – Links to information to aid in community engagement activities.

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

P42 Multi-Project Centers

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Justin Crane, MDB, Inc.

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Questions and Answers

- Via Phone:
  - *6 to un-mute / mute phone
  - State your name, organization
  - Ask your question
- Via Internet:
  - Click on "?" icon
  - Type question in writing space
  - Press enter

Questions not covered during seminar will be answered off-line ASAP and posted on Web Seminar Webpages:

• On SRP Website: http://www.niehs.nih.gov/research/supported/srp/funding/webinars.cfm and
• On Clu-In Website (Under "Additional Resources): http://www.clu-in.org/conf/tio/srpfunding/

Audio Archive will be available in approximately 4 weeks and are accessible from the above websites.

NIEHS National Institute of Environmental Health Sciences

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES National Institutes of Health

Srp Superfund Research Program

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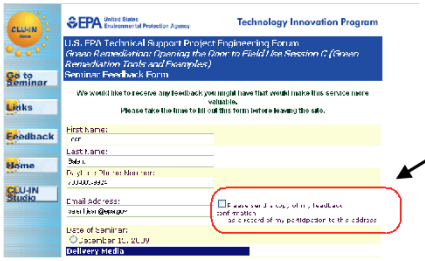
Resources & Feedback

- To view a complete list of resources for this seminar, please visit the **Additional Resources**
- Please complete the **Feedback Form** to help ensure events like this are offered in the future



Need confirmation of your participation today?

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