

EFRI Monitoring Systems

```
graph TD; A[EFRI Monitoring Systems] --> B[For EFRI officers to complete]; A --> C[For EFRI PI's to complete]; B --> D[Active awardees]; B --> E[Post-award]; C --> F[Active awardees]; C --> G[Post-award];
```

For EFRI officers to complete

For EFRI PI's to complete

Active awardees

Post-award

Active awardees

Post-award

EFRI Monitoring Systems

```
graph TD; A[EFRI Monitoring Systems] --> B[For EFRI officers to complete]; A --> C[For EFRI PI's to complete]; C --> D[Active awardees]; C --> E[Post-award];
```

For EFRI officers to complete

For EFRI PI's to complete

Active awardees

Post-award

Provide the number of grants co-funded by the agencies listed below

National Institutes of Health (NIH)

Department of Defense (DOD)

National Aeronautics and Space
Administration (NASA)

National Oceanic and Atmospheric
Administration (NOAA)

Department of Energy (DOE)

Food and Drug Administration (FDA)

Environmental Protection Agency
(EPA)

National Institutes of Standards and
Technology (NIST)

Department of Homeland Security
(DHS)

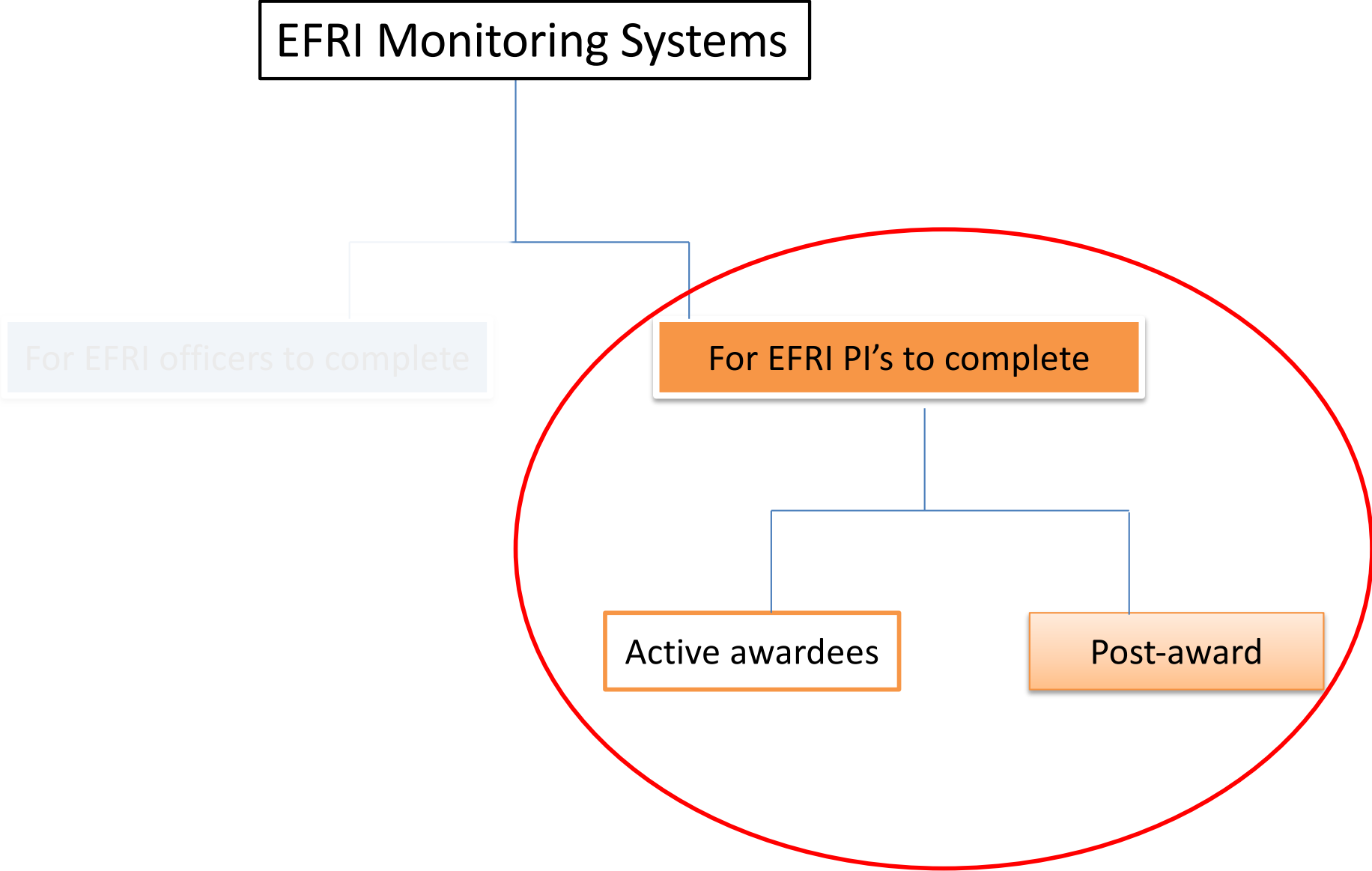
Defense Advanced Research Projects
Agency (DARPA)

Other



Select to add additional fields

EFRI Monitoring Systems



```
graph TD; A[EFRI Monitoring Systems] --> B[For EFRI officers to complete]; A --> C[For EFRI PI's to complete]; C --> D[Active awardees]; C --> E[Post-award];
```

The diagram is a hierarchical flowchart. At the top is a black-bordered box labeled 'EFRI Monitoring Systems'. A vertical line descends from this box and splits into two horizontal branches. The left branch leads to a light blue box labeled 'For EFRI officers to complete'. The right branch leads to an orange box labeled 'For EFRI PI's to complete'. This orange box is further divided by a vertical line into two horizontal branches, leading to 'Active awardees' and 'Post-award', both in orange boxes. A large red oval encircles the entire right side of the diagram, including the 'For EFRI PI's to complete' box and its two sub-items.

For EFRI officers to complete

For EFRI PI's to complete

Active awardees

Post-award

Question 1

Please check the Grand Challenges and/or National Needs that this EFRI research set out to address as indicated in the grant proposal

- | | |
|---|---|
| ☐ Make solar energy economical | ☐ Reverse-engineer the brain |
| ☐ Provide energy from fusion | ☐ Prevent nuclear terror |
| ☐ Develop carbon sequestration methods | ☐ Secure cyberspace |
| ☐ Manage the nitrogen cycle | ☐ Enhance virtual reality |
| ☐ Provide access to clean water | ☐ Advance personalized learning |
| ☐ Restore and improve urban infrastructure | ☐ Engineer the tools of scientific discovery |
| ☐ Advance health informatics | ☐ National Need <input type="text"/> |
| ☐ Engineer better medicines | |

Have there been any changes or additions to the Grand Challenges and/or National Needs that are now being addressed by the active, ongoing research?

Yes No

If yes, please check all of the Grand Challenges or National Needs that the research now addresses.

- | | |
|---|---|
| ☐ Make solar energy economical | ☐ Reverse-engineer the brain |
| ☐ Provide energy from fusion | ☐ Prevent nuclear terror |
| ☐ Develop carbon sequestration methods | ☐ Secure cyberspace |
| ☐ Manage the nitrogen cycle | ☐ Enhance virtual reality |
| ☐ Provide access to clean water | ☐ Advance personalized learning |
| ☐ Restore and improve urban infrastructure | ☐ Engineer the tools of scientific discovery |
| ☐ Advance health informatics | ☐ National Need <input type="text"/> |
| ☐ Engineer better medicines | |

Question 2

Please list all collaborators/partners that you consider to be interdisciplinary

Name	Institution
 Select to add additional fields	

Please indicate the nature of the collaboration and whether the partner is international (check all that apply)

II	DI	C	NP	G	I

Key

Degree Granting Institutions

II = Intra-institution (within same institution)

DI = Domestic Inter-institution (different institutions)

Non-Degree Granting Institutions

C = Corporation

NP = Non-profit

G = Government

I = International

Question 3

Number of accepted publications with co-authors from different disciplines

field only

Question 4

Please list all achievements of all the PI's involved in the EFRI research in the appropriate category

PI Name	Achievement	Description
Lead PI (name pre-populated)		
Select to add additional fields	Recognition Awards Leadership Roles Promotions Other	

Question 5

Has this research generated additional funding from other sources (other NSF programs or other agencies) for all PI's and Co-PI's involved in this EFRI project research?

Please collect this data for all PI's listed below.

Past-PI's are displayed in gray, with option to add information if additional funding is in any way related to the EFRI research

PI Name	Grant Title	Agency	> \$2 Million/ grant
Lead PI (name pre-populated)			Yes/No
 Select to add additional fields			
Co-PI #1 (name pre-populated)			
 Select to add additional fields			
Co-PI #2 (name pre-populated)			
 Select to add additional fields			
Etc...			

Question 6

Please list any researchers who have spent more than 10% of their time in a laboratory at a different institution (including EFRI partner laboratories)

Name	Host Institution	Title
 Select to add additional fields		PI Co-PI Research Faculty Post-Doctorate Graduate Student Undergraduate Research Assistant Visiting Researcher Other _____

Please list any companies or start-ups that were developed directly or indirectly based on the research funded by EFRI

Companies/Start-Ups	Product/Service/or Process	Description of Product/Service/or Process	Year Founded
	☐ Product ☐ Service ☐ Process ☐ Other		

Question 8

Please answer the following questions about any licensing activity that has resulted from your EFRI research

Technology being licensed	Type of license	Year of licensing agreement
 Select to add additional field	☐ Patent ☐ Other	

Question 9

Please list any companies that have demonstrated interest in partnering activities related to your EFRI research. Please gather this information from all leadership in the EFRI grant.

Company	Please describe nature of interest for partnership
	Continued Conversations Monetary Commitment Contractual Agreement Other
Select to add additional fields	

Post award monitoring systems only

Question 10

Please list new research capabilities resulting from EFRI research that is being utilized and adopted by the research community in the appropriate categories

Description	Type
	☐ Technique or Method
+ Select to add additional fields	☐ Tool or Equipment ☐ Resource ☐ Model ☐ Device ☐ Other

Question 11

Please indicate if this EFRI research has led to curriculum changes at any educational level, collegiate or pre-collegiate

Curriculum change	Describe	Education Level
New Course Supplement to existing course Course Substitution New Program Program modification Other onal fields		PK-12 College

Post award monitoring systems only

Question 12

Please provide the following information about former EFRI-supported students who have become involved in high-risk/ high-reward research.

Name	Current Title	Field of Research
+ Select to add additional field	PI Staff Scientist Post-Doctorate Graduate Student Undergraduate Research Assistant Visiting Researcher Other_____	

Could pre-populate fields with names of researchers from RPPR

Question 13

Please list new indicators of new research communities that have formed around EFRI topics

New Meetings/ Conferences	New Journals	New Workshops/ Working groups	News coverage/ press release	Other (ex: congressional hearings, website, social-media, professional society)
+ Select to add additional fields				

Question 14

Your research team, including senior, stipend, for-credit, and volunteer personnel will be contacted to collect information on demographics and career path decisions. Please list all researchers that have participated in the EFRI research.

Name	Email	Role in the laboratory
 Select to add additional fields		Research Faculty Post-Doctorate Graduate Student Undergraduate Research Assistant Visiting Researcher Other _____

Could pre-populate fields with names of researchers from RPPR
(capturing current and past trainees within the grant)

- Auto-generate different emails for different categories of researchers (i.e., Grad students, post-docs, etc.) to be sent out to those participants asking them the questions found on the following slides

Email generated to researchers:

Demographic Information

Why This Information Is Being Requested

The National Science Foundation is committed to broadening the participation of groups currently under-represented in science and engineering. In order to accurately gauge our progress in achieving this important goal, we ask that applicants provide the requested demographic information. Submission of the requested information is voluntary and is not a precondition of award. Nonetheless, we need your cooperation, for information not submitted will seriously undermine the statistical validity and, therefore, the usefulness of information reported. The Foundation strongly encourages women, minorities, persons with disabilities, and veterans to participate fully in its programs. In accordance with Federal statutes, regulations and NSF policies, no person on grounds of race, color, age, sex, national origin or disability shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination, under any program or activity receiving financial assistance from NSF.

[Race and Ethnicity Definitions](#)

[Disability Definitions](#)

*Gender:

*Veteran Status: ☐ Yes
☐ No
☐ Do not wish to provide

*Race: (select one or more)
☐ American Indian or Alaskan Native
☐ Asian
☐ Black or African American
☐ Native Hawaiian or Other Pacific Islander
☐ White
☐ Do not wish to provide race

*Ethnicity:

*Disability: ☐ None
☐ Do not wish to provide disability status
(select one or more)
☐ Blind or serious difficulty seeing even when wearing glasses
☐ Deaf or serious difficulty hearing
☐ Serious difficulty walking or climbing stairs
☐ Other Disability (Please specify. Must be less than 255 characters.)

Please list any significant achievements that resulted from your EFRI research involvement.

Achievement	Describe
conference presentation awards scholarships/fellowships recognition other	additional fields

Please list any outreach activities you participated in for work related to your EFRI project?

Formal Education	Describe
+ guest lecture class instruction webinars other	add additional fields

Informal Education	Describe
▼ public speaking museum exhibit participation science fair events science writing media dissemination other	

Is there any other information you would like to share with us regarding your experience with this EFRI project?

Questions sent to students:

Please consider how strongly you agree or disagree with the following statements:

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
When I began my involvement with this EFRI research, I had a clear career goal	☐	☐	☐	☐	☐

Please rate your interest in pursuing each of the following career pathways at the beginning of your EFRI research experience

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
Faculty at a research-intensive university	☐	☐	☐	☐	☐
Faculty at a teaching-intensive university	☐	☐	☐	☐	☐
Research career, non-academic (industry, pharmaceutical, biotech, government, start-up, etc.)	☐	☐	☐	☐	☐
Non-research career (consulting, policy, science writing, patent law, business, etc.)	☐	☐	☐	☐	☐

Comments:

Please rate your interest in pursuing each of the following career pathways currently or at the conclusion of your EFRI research

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
Faculty at a research-intensive university	☐	☐	☐	☐	☐
Faculty at a teaching-intensive university	☐	☐	☐	☐	☐
Research career, non-academic (industry, pharmaceutical, biotech, government, start-up, etc.)	☐	☐	☐	☐	☐
Non-research career (consulting, policy, science writing, patent law, business, etc.)	☐	☐	☐	☐	☐

Comments:

Overall notes

- Include save and exit function
- Time and user stamped