



**EPA STAR RFA**

*Advancing Toxicokinetics for Efficient  
and Robust Chemical Evaluation  
Applications*

**Informational Webinar for Applicants**

August 7, 2019

2 PM EDT



# Webinar Objectives

- Go over application Information in the EPA STAR RFA *ADVANCING TOXICOKINETICS FOR EFFICIENT AND ROBUST CHEMICAL EVALUATIONS* (Technical, Eligibility, Submission).
- There will be no new information, this is an overview what has already been provided in the RFA.

## Webinar Ground Rules

- Please hold your questions till all EPA presentations have been made.
- No specific research project or idea can be discussed, but clarifying questions regarding what is written in the RFA announcement may be answered.



## ORD's Chemical Safety for Sustainability Research Program

### **EPA's Office of Research and Development's CSS Research Program Objectives:**

- Connect chemical exposures to outcomes
- Accelerate chemical safety evaluation
- Evaluate high priority chemicals
- Provide accessible data
- Engage stakeholders

<https://www.epa.gov/aboutepa/about-chemical-safety-sustainability-research-program>



# Award Information

- Estimated Number of Awards:

Approximately 5 awards

Anticipated Funding Amount:

Approximately \$4 million for all awards

- Potential Funding per Award:

Up to a total of \$800,000 per award, including direct and indirect costs, with a maximum duration of 3 years



## Proposed Research Activities must address

- 1) Gaps in the availability of medium- or high-throughput assays for elucidating chemical toxicokinetics; and
- 2) Exposure-related factors to reduce uncertainty in current approaches for a specific exposure scenario, sensitive population or life-stage. Especially to
  - Scale up to increase throughput
  - Avoid the need for customization
  - Be widely applicable across many chemical classes



## Specific Areas of Interest

*Applications must address at least 1 of the 2*

**Research Area 1: Development and integration of new assays and approaches** to improve the accuracy of chemical screening, hazard identification or risk assessment.

New *in vitro* and/or *in silico* approaches to be integrated into toxicokinetic screening approaches or rapid assessment methodologies

New or refined approaches that generate and make use of experimental *in vitro* data may include, for example:

- a. Assays that reproducibly provide measures for challenging chemicals that are a part of the environmental chemical exposure space
- b. Assays that measure TK parameters not currently available via *in vitro* approaches, that may be of relevance to sensitive populations or lifestages



## Specific Areas of Interest

### Research Area #2: **High-throughput approaches applicable to multiple chemicals or chemical classes**

#### **Need -**

- Methods or techniques made to be broadly applicable to multiple chemicals/chemical classes to increase the low throughput inherent in conventionally used targeted mass spectrometry method development.
  - E.G. Nuclear Magnetic Resonance (NMR), radioflow, spectrophotometric, or elemental analysis assays.



## Expected Outputs

- New assays and approaches for toxicokinetic screening approaches,
- Rapid assessment methodologies, high-throughput approaches applicable to multiple chemicals or chemical classes,
- Decision support tools,
- Peer-reviewed journal publications, Guidance documents for new approaches,
- Models, and Case studies.





## Expected Outcomes

- **Outcomes should enable better planning and decision-making to reduce potential adverse human health and ecological effects associated with chemical exposure by communities, municipalities, states, regions, and tribal governments**



# Eligibility Information

Public and private nonprofit institutions/organizations, public and private institutions of higher education, and hospitals located in the U.S., state and local governments, Federally Recognized Indian Tribal Governments, and U.S. territories or possessions are eligible to apply. Profit-making firms and individuals are not eligible to apply.



# Application Materials

- To apply under this solicitation, use the application package available at Grants.gov (for further submission information see [Section IV.F. Submission Instructions and other Submission Requirements](#)).
- Note: With the exception of the current and pending support form (available at Research Funding Opportunities: How to Apply and Required Forms), all necessary forms are included in the electronic application package. Make sure to include the current and pending support form in your Grants.gov submission.



# Other Information

- Please refer to [Section IV. Application And Submission Information](#).
- Please refer to [Section V. Application Review Information](#).
- **Solicitation Closing Date:**  
[Tuesday, September 10<sup>th</sup>, 2019, 11:59:59 pm Eastern Time](#)



# Agency Contacts

- **Technical Contact:**

**Barbara Klieforth**, Project Officer

[klieforth.barbara@epa.gov](mailto:klieforth.barbara@epa.gov)

202-564-7723

- **Eligibility Contact:**

**Ron Josephson**, Eligibility & Peer Review Officer

[josephson.ron@epa.gov](mailto:josephson.ron@epa.gov)

202-564-7823

- **Electronic Submissions Contact:**

**Debra M. Jones**, Administrative Officer

[jones.debram@epa.gov](mailto:jones.debram@epa.gov)

202-564-7839