

# **Bureau of Reclamation Funding Opportunities**

**Yuliana Porras-Mendoza, Research & Development Office**

**Water Treatment Innovation and Networking Workshop 2019**

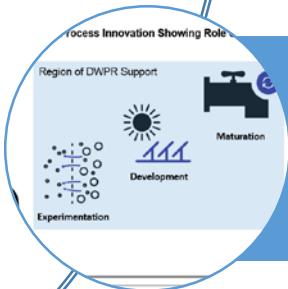
# Research & Development Office



Science & Technology



Water Prize Competition Center



Desalination & Water Purification Research

# Science & Technology Program

Reclamation-wide competitive research

Five key research areas

Seeking benefits to Reclamation and stakeholders

# Key Research Areas

## Water Infrastructure

Dams

Canals

Pipelines

## Power and Energy

Hydro Powerplants

Pumping Plants

Energy Efficiency

Non-Hydropower Renewable

## Environmental Issues

Water Delivery Reliability

Sediment Management

Invasive Species

River Habitat Restoration

Water Quality

## Water Operations and Planning

Water Supply and Streamflow Forecasting

Climate Change

Open Data

Water Operations Models/Decision Support

## Developing Water Supplies

Advanced Water Treatment

Agricultural & Municipal Water Supplies

Groundwater Supplies

System Water Losses

# Science & Technology Funding Opportunity

- Annual call for proposals around the month of April
- Reclamation research submits proposal as lead principal investigator
- Partners can leverage in-kind and cash support

## Example:

- Concentrate Management Toolbox
  - Partners: utilities and private sector

# Water Prize Competition Center



Water Availability



Infrastructure Sustainability



Environmental Compliance

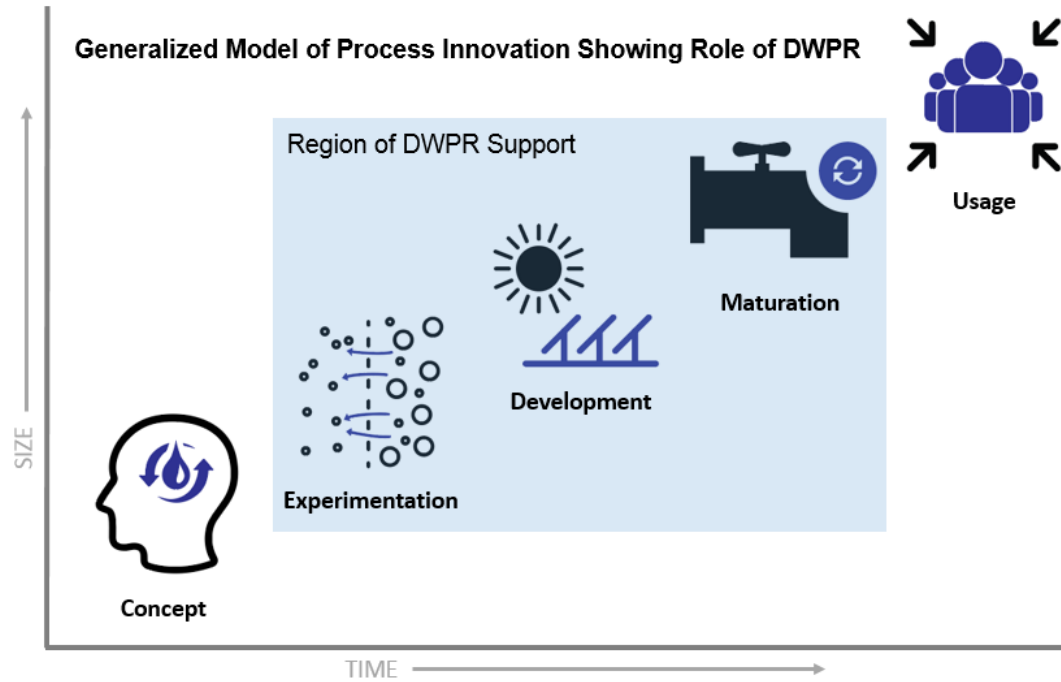
# Desalination & Water Purification Research

Goal is to augment water supplies

Reducing cost and environmental impact

Support laboratory and pilot scale projects

# Desalination & Water Purification Research



- Research Funding Opportunity
- Pitch to Pilot Funding Opportunity



# Funding Opportunity Announcement

- DWPR Research
- Currently open on [Grants.gov](https://www.grants.gov)
  - BOR-DO-20-F004
  - Closes December 4, 2019
  - ~\$1.475 million available for funding\*
- Laboratory Scale
- Pilot Scale

*\*This amount might change once we receive appropriations for FY20*

A green highway sign with white text and an arrow. The sign is rectangular with rounded corners and a white border. It is mounted on a metal pole. The background of the sign is a solid green color. The text "FUNDING" is written in large, bold, white capital letters. Below it, the text "next exit" is written in a smaller, white, lowercase font. To the right of "next exit" is a white arrow pointing upwards and to the right.

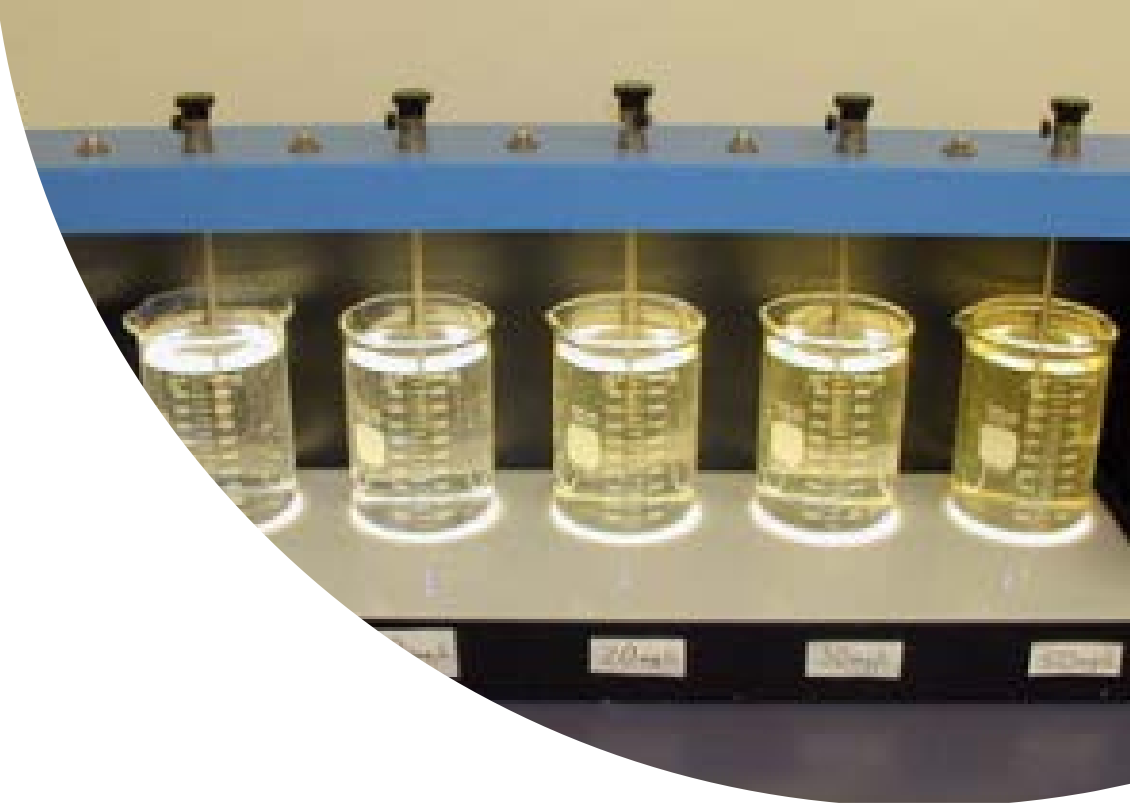
# FUNDING

next exit



- Up to \$250,000
- 2 year study
- Typically bench scale studies involving small flow rates (less than 2 gallons per minute)
- Used to determine the viability of a novel process, new materials, or process modifications
- Research at this stage often involves a high degree of risk and uncertainty

# Laboratory Scale



- Up to \$800,000
- 3 year study
- Typically projects involving flow rates above 1 gallon per minute testing with natural water sources rather than synthetic or laboratory-made feed water
- Typically used to determine the technical, practical, and/or economic ability of a process
- Expect preliminary costs to be developed for capital and operation and maintenance



# Pilot Scale

# Eligible APPLICANTS

- 
- Individuals
  - Institutions of higher education
  - Profit organizations
  - State and local governmental entities
  - Non-Profit organizations
  - Federally-funded Research and Development Centers
  - United States-Mexico binational research foundations and interuniversity research programs
  - Indian tribal governments and organizations

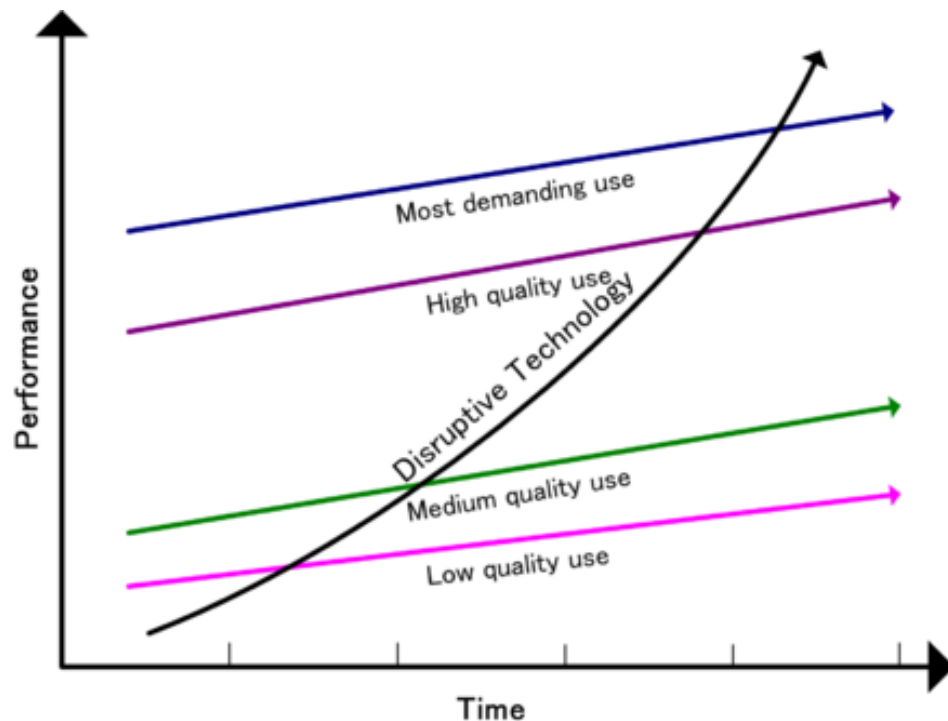
# Cost Share Requirements

- **Category A: Institutions of higher education, United States-Mexico binational research foundations, and inter-university research programs**
  - Non-Federal cost share is not required but encouraged
- **Category B: All other applicants**
  - Non-Federal cost share of 75% or more of the total research study costs
  - In exceptional circumstances and upon request of the applicant, Reclamation may reduce the cost share requirement, no less than 50%



# DWPR Pitch to Pilot

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*Image from Wikipedia*

- Seeking innovative and disruptive technologies ready for pilot testing that could then competitively enter the water industry
- Will be announcing soon the FY19 Awards
- Funding opportunity around March 2020 (pending appropriations)



# Other Programs within Reclamation

- **Title XVI Water Reuse (reuse focus only)**
  - Authorized project
  - WIIN project
- **WIIN Desalination Construction**
  - Desalination focused on seawater and brackish water
- **Water Marketing Strategy**
  - Conduct planning activities to develop water marketing strategies
- **Applied Science Grants**
  - Develop tools/information to support management of water resources

# Programs website links

Reclamation Program	Website	Contact
Desalination and Water Purification Research (DWPR)	<a href="http://www.usbr.gov/research/dwpr">www.usbr.gov/research/dwpr</a>	Yuliana Porras-Mendoza yporrasmendoza@usbr.gov
Science and Technology (S&T)	<a href="http://www.usbr.gov/research/st">www.usbr.gov/research/st</a>	John Whitler jwhitler@usbr.gov
Water Prize Competition Center	<a href="http://www.usbr.gov/research/challenges">www.usbr.gov/research/challenges</a>	Jennifer Beardsley jbeardsley@usbr.gov
Title XVI Water Reuse and WIN Desalination Construction	<a href="http://www.usbr.gov/watersmart">www.usbr.gov/watersmart</a>	Amanda Erath aerath@usbr.gov
Water Marketing Strategies and Applied Science Grants	<a href="http://www.usbr.gov/watersmart">www.usbr.gov/watersmart</a>	Avra Morgan amorgan@usbr.gov



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**RECLAMATION**  
*Managing Water in the West*