

**GLOBAL**  
Environmental Legacy  
FOUNDATION

Saving the World Through Practical  
Applications of Science

**GELFOUNDATION.ORG**

**What we offer the world is  
“Solutions for Pollution”**

**What we offer our members is a way to go  
“From Lab to Pilot to Full Treatment Systems”**

**Memberships are by Invitation Only**



# Our Members

## Universities

- Science
- Engineering
- Legal

## Innovators

- Entrepreneurs
- Novel Innovations
- Ready for Pilots

## Businesses

- Food
- Oil & Gas
- That Need Solutions

## Strategic Alliances

- U.S. Bureau of Reclamation
- Non Profit Organizations
- Volunteer Organization

# It All Starts With Business Plans...

## Company Business Plans

- Writing
- Consulting
  - Marketing Plan
  - Work Plan
  - Funding Plan

## Project Business Plans

- Writing
- Project Funding Plan
  - Grant Search and Writing
  - Matching Funds
- Engineering Analysis
- Third Party Validation
- Scale-up

# Focus on Funding

## Grants

- Foundations
- Corporation
- Governmental

## Business loan

- Pre-qualify
- Equipment
- SBA

## Fundraising

- Online
- Events
- Philanthropic

## Alliances

- Business
- Volunteer
- Philanthropic

## Investors

- Venture Capital
- Angel
- Project LLC



# Grant Support

## GELF (Non-Profit) Sponsored

- Grant Searches
- Non-profit Submission

## Grant Preparation

- Template
- Writing
- Review

## Collaborative Teaming

- GELF Members
- Volunteers

## Funding Plan Development

- Matching Funds
  - In Kind Donation
  - Matching Grants
  - Philanthropic

# Grants

## Research and Development

- Lab Work
- Prototyping

## Pilot Projects

- Planning
- Installation

## Full Systems

- Planning
- Construction

# Fundraising

## Benefit Concerts

- Raising funds
- Donor Exposure
- Media Exposure

## Symposiums

- Speaker
- Donor Exposure
- Media Exposure

## Donations

- Philanthropic
- Online
- Business

# Third Party Validation

(Third Party Charges May Apply)

## Bureau of Reclamation

Test Plan  
Written Evaluation  
Scale-up Recommendations

## University Scientists

Test Plan  
Written Evaluation  
Research Publishing

# GELF Arranges Pilot Systems

## Within initiatives

- Municipalities
- Connected Business
- Strategic Alliances



## Outside initiatives

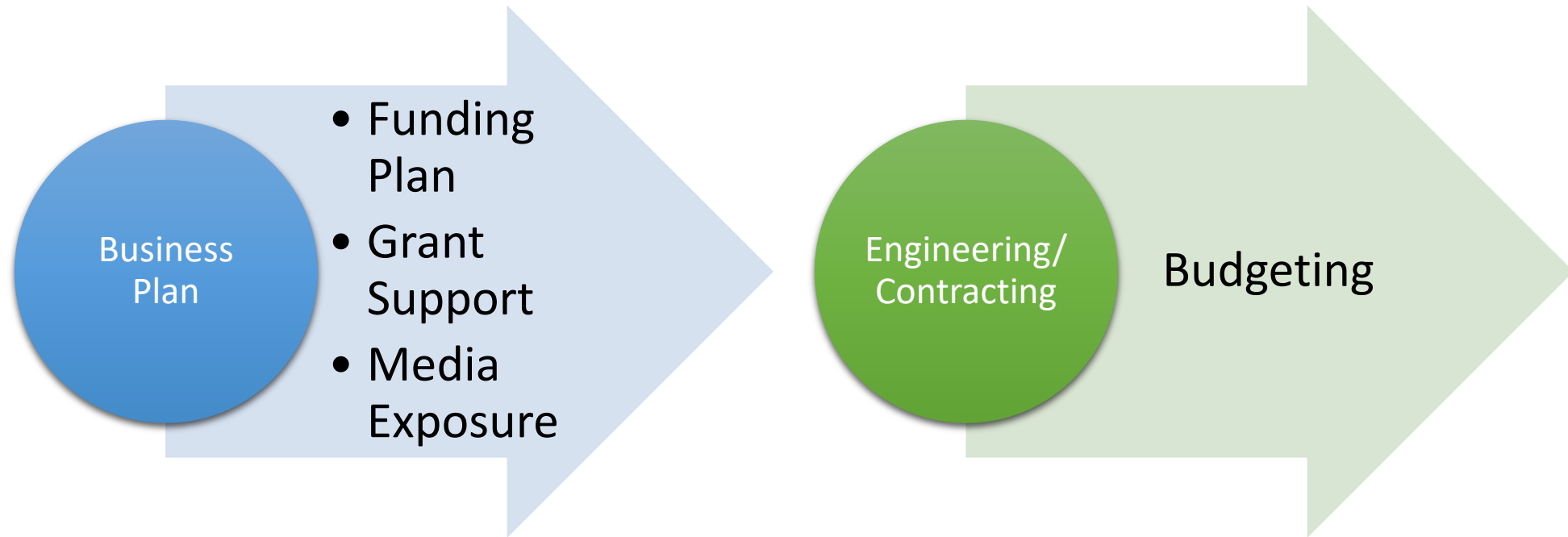
- Municipalities
- Connected Business
- Strategic Alliances



## Test Plan

- Development
- Execution
- Monitoring

# GELF Arranges Full Treatment Systems



# Legal Support

Corporate structuring

Permitting CEQA, Coastal Commission, EPA

Private Public Partnership

Intellectual Properties

Contracts

Non Disclosure Agreements

Mandatory Settlement Funding

# Marketing Support

Content  
Development

Website  
Review

Advertising  
Development

Client  
Targeting

Customer List  
Development

Email Content  
and Delivery

# Media Support

Project  
Presentations

Press  
Releases

Plans

Press Kits

Social Media

Interviews

# Story Telling Support

Story Crafting

Consulting

Flipbook



## Collaborate With Other Members

Projects

Consultation

Scientific Research

System Integration

Strategic Alliances



Connect to  
Funders

Venture Calpitalists

Angel Investors

Philanthropist

Businesses

Strategic Alliances

A large, abstract blue ink splatter or watercolor-like shape on the left side of the slide, containing the text.

# What are we doing for our member...

## MICROrganic Technologies

- **MICROBIAL FUEL CELL**

- Media
  - Interview with Water Deeply
- Pilot & Full Treatment System
  - Arranged Pilot & Treatment Project
  - Project Business Plan
  - Grant Support
- Science Support
  - GELF Members
- Test Plan Development
  - Bureau of Reclamation
  - GELF Scientists
- Engineering
  - Mechanical
  - Civil
- Local Government Interfacing
  - Salton Sea Authority, California Department of Natural Resources
  - Connect U.S. Bureau of Reclamation



What are we doing  
for our member...

Eco1st  
Technologies

- **HIGH FLOW RATE CHEMICAL FREE DISINFECTION**
  - Company Business Expansion Plan
    - Third Party Validation U.S. Bureau of Reclamation - Disinfection
    - Connecting Southern California Coastal Water Research Project
    - Developing a Proposal for International Water Boundaries Commission/South San Diego Cities
    - Developing a Proposal to California Border Patrol Waste Water Treatment
  - California Border Patrol RFI Response
  - Connect GELF Engineering Member to Eco1st
  - Grant Support

What are we doing  
for our member...

Sunny Jiang Ph.D.  
University of  
California Irvine

- **WATER QUALITY ASSESSMENT  
PATHOGEN DETECTION SMART CHIP &  
READER**

- Project Business Plan
  - Marketing and Innovation Promotion
    - Youtube Video
  - Imperial Beach Pier Pilot
  - Funding Plan
  - Third Party Validation
    - U.S. Bureau of Reclamation
- Grants
  - Patagonia
  - Wells Fargo
  - Roddenberry Foundation
  - Nicholas Endowment fund
- Component Sourcing



What are we doing  
for our member...

Crystal Clear  
Technologies

- **PARTICLE ADSORPTION**

- Pilot Project Business Plan
  - Grant Submissions
  - Funding Plan
- Connect GELF Science Member Salton Sea Initiative
- Connect Bureau of Reclamation Advanced Water Treatment
- Inclusion in GELF Salton Sea General Plan Presented to Bureau of Reclamation
- Presentation to Salton Sea Authority Selenium Removal Pilot Project
- Connect Grant Writer & Engineering
- Pilot Project
- Full Treatment Opportunity
- Third Party Testing and Validation
  - U.S. Bureau of Reclamation

A large, dark blue, irregular splash shape on the left side of the slide, resembling water or paint. It has a rough, textured edge and contains the text for the presentation.

# What are we doing for our member...

Sephton Water  
Technologies

- **EVAPORATIVE DISTILLATION**

- Grant Support
  - Multiple Grants
  - Multiple Projects
- By Product Reuse
  - Cargill Proposal for Salt Sales
  - Algae Biofuel for Brine Organic Waste Consumption
- Connect Engineering Member
- Connect Science Member Princeton University
- Pilot Project Opportunity South Orange County Wastewater Authority Desalination
- Product Promotion
- Inclusion in GELF Salton Sea General Plan Presented to Bureau of Reclamation

What are we doing  
for our member...

Bruce Rittmann  
Ph.D.  
Arizona State  
University

- **MICROBIAL HYDROGEN & HYDROGEN PEROXIDE PRODUCING CELLS**
  - Connect Tyson Foods Chief Scientist
  - Teamed on Proposal to Tyson Foods
  - Funding Request to Wells Fargo IN2
  - Connect with GELF Science Member Salton Sea Initiative – Test Plan 2 projects
  - Grant Request Wells Fargo, Tyson Foods, Archer Daniel Midland & Coca-Cola
  - Business Alliance Connect Toyota, Airgas, Tyson Foods & Archer Daniel Midland

A large, abstract blue watercolor splash shape on the left side of the slide, containing the text.

What are we doing  
for our member...

Z. Jason Ren Ph.D.  
Princeton University

- **MICROBIAL CAPACITIVE DEIONIZATION**

- Pilot Proposal South Coast Wastewater Authority
- Connect California Department of Natural Resources Salton Sea
- Connect GELF Science member Salton Sea Initiative
- Connect GELF member Sephton Water Technologies
- System Proposal Desalination with Microbial Brine Degradation
- System Proposal Microbial Algae Harvester
- Inclusion in GELF Salton Sea General Plan Presented to Bureau of Reclamation



# What Are Our Members Doing For Us?

Modernizing  
Wastewater  
Systems

Protecting  
Ecosystems

Protecting the  
Public's Health

Detecting  
Pathogens

Chemical Free  
Disinfection

Disinfecting  
Stagnant Water

Generating  
Renewable Energy

Generating Next  
Generation  
BioFuels

Generating  
Hydrogen Gas from  
Animal Farm  
Excrement

Eliminating  
Phosphorus and  
Nitrogen from  
Waterways

Stopping Harmful  
Algae Blooms

Purifying Tainted  
Water

Providing  
Engineering  
Solutions

In The End...

GELF members help businesses solve problems by using science to detect, treat & stop pollution from harming us and the environment!