

The background of the slide is a deep space scene. On the right side, a large, reddish-brown planet, likely Mars, is partially visible, showing its textured surface. The rest of the background is a dark blue-black space filled with numerous stars of varying colors and sizes, and a faint, glowing nebula or galaxy structure in shades of blue and purple.

**NASA/MARSHALL SPACE  
FLIGHT CENTER**

**JOINT COUNSELING SESSION**

**AEQUOR, INC.**

**March 2, 2021**

# Background

<b>COMPANY NAME:</b>	<b>Aequor Inc</b>	<b>ADDRESS:</b>	3210 Merryfield Row San Diego CA 92121
<b>OWNER:</b>	Cynthia K. Burzell Marilyn J. Bruno	<b>CONTACT NAME:</b>	Cynthia Burzell
<b>EMAIL:</b>	cburzell@aequorinc.com	<b>YEARS IN BUSINESS:</b>	15
<b>CAGE CODE:</b>	5NY90	<b>DUNS NUMBER:</b>	831734996
<b>WEB SITE:</b>	www.aequorinc.com	<b>NAICS CODES:</b>	424690, 423850, 541711, 541690, 424210, 541620, 561990
<b>CERTIFICATIONS (e.g., ISO 9001, AS 9100, etc.):</b>			

# Business Size & Classifications

<b>EMPLOYEES (range):</b>	<b>0-10</b>
<b>AVERAGE SALES (range):*</b>	<b>&lt;\$1M</b>

<b>CLASSIFICATIONS (select from list below):</b>	<b>Yes/No</b>
<b>SMALL BUSINESS</b>	<b>Yes</b>
<b>SMALL DISADVANTAGED BUSINESS</b>	<b>No</b>
<b>NATIVE AMERICAN-OWNED</b>	<b>No</b>
<b>ALASKAN NATIVE CORPORATION</b>	<b>No</b>
<b>WOMEN OWNED</b>	<b>Yes</b>
<b>ECONOMICALLY DISADVANTAGED WOMEN OWNED</b>	<b>No</b>
<b>VETERAN-OWNED</b>	<b>No</b>
<b>SERVICE DISABLED VETERAN OWNED</b>	<b>No</b>
<b>HUBZONE CERTIFIED</b>	<b>No</b>
<b>8(A) CERTIFIED</b>	<b>No</b>
<b>8(A) EXPIRATION DATE (if applicable)</b>	<b>No</b>

\*Based around NAICS 424690, 541620, 423850



# Primary Capabilities

<b>Products</b>	<b>NAICS Codes</b>	<b>Description</b>
Water treatments	424690	Water Disinfectant, Antibiofilm Treatment
Surface Cleaners	423850	Descaler; EPA Disinfectant; All-purpose Cleaner
Personal hygiene products; agricultural chemicals	424210	Algae/Yeast Production Enhancers
Environmental Consulting	541620	Consulting Services
Testing: Microbial, Biofilm, Water	541690	Antimicrobial and Antibiofilm Testing Services
Other Professional, Scientific, Technical Support	561990	Custom Services
R&D in Biotechnology	541711	Custom R&D Services
Chemicals and Allied Products	424690	Wholesale Chemical Supplier
Drugs and Druggists' Sundry Merchant Wholesaler	424210	Medical Supplier



# Current and Recent Contracts/Performance ( < 5 years )

<b>Year</b>	<b>Agency</b>	<b>Partner</b>	<b>Purpose (NIAC Code)</b>	<b>Funding</b>
<b>2017</b>	NASA	MSFC	Water treatments; R&D; Consulting (424690; 541711; 541620)	\$4,102.70
<b>2018</b>	NASA	MSFC	Water treatment; R&D (424690; 541711)	\$7,487.16
<b>2018</b>	DOE	LBNL ADBPU	Water treatment; R&D algae yeast biomass booster (424690; 541711)	\$48,000.00 (CRADA)
<b>2020 - 2021</b>	DOE	Sandia AZCATI	Water treatment; R&D algae productivity enhancer (424690; 541711)	\$10,000.00 (DISCOVER in-kind)



# NASA Value - Quad Chart

## Problem(s):

- Bacteria cause **corrosion, scale, slime, contamination, equipment degradation, loss of heat exchanger efficiency, food contamination, infection, etc.**
- **Biofilm** forms thicker and faster in microgravity
- **>130 biofilm-forming bacteria/fungi inside ISS cabin**
- **Silver resistant bacteria** in ISS water system

## Company Solution:

- **IP on >70 “green” non-toxic, chemicals**
- **Kill broad-spectrum** bacteria and fungi + remove **biofilm**
- **EPA-approved chemicals available in ton quantities**
- **Superior, long-lasting performance validated** by USDA, DOE, NASA/MSFC and 15 multinationals – data available upon request

## Value:

- **De-risk** threats to life support systems, Mission goals
- **Save costs** - labor, downtime, water/ energy, integrity of equipment, etc.
- **Enhance** low concentrations of otherwise failed treatments
- **Testing services** ensure on-going efficacy

## Status of Solution

- **TRL-6:** Chemicals as ingredients available in commercial (ton) quantities, EPA/TSCA approved as non-toxic
- **TRL-6:** Water treatments and Surface cleaners
- **TRL-3: Custom formulations** for different systems, substrates, uses (water system, HVAC, food safety, personal hygiene, irrigation/hydroponics, etc.) and application methods (spray, wash, wipe, foam, gel, coatings, paints, etc.)



# Awards/Notable Accomplishments

<b>Year</b>	<b>Award/ Accomplishment</b>	<b>Description</b>
<b>2009</b>	TechAmerica Researcher of the Year Abacus Award	Award for discovery of natural marine antimicrobials
<b>2016</b>	Speaker at United Nations General Assembly High Level Meetings	UN declared Antimicrobial Resistance (AMR) a major threat to mankind and invited Dr. Bruno to speak about biofilm and One Health
<b>2017</b>	NASA iTech Award	Award in Life Support Category
<b>2018</b>	One Health Commission Who's Who	Aequor named on One Health Commission Who's Who
<b>2019</b>	Selected by U.S. Department of State to Represent American Innovation	Aequor represented American innovation at the Global Entrepreneurship Summit (GES) in the Hague
<b>2020</b>	Plug and Play	Aequor selected to develop new materials and packaging
<b>2020</b>	San Diego Airport Authority	Aequor selected to evaluate cleaning products and protocols in airport terminals and inside cabins
<b>2021</b>	Global Health Security Network	Aequor selected to identify the gaps in the World Health Organizations' guidelines for infection prevention and control in public places

# Principle Point(s) of Contact

<b>NAME</b>	<b>TITLE</b>	<b>PHONE</b>	<b>EMAIL</b>
<b>Cynthia Burzell</b>	Founder, CSO	858-255-7865	cburzell@aequorinc.com
<b>Marilyn Bruno</b>	Co-Founder, CEO	858-255-7854	mbruno@aequorinc.com