

Algae Technology and Innovation



Light-Inspired Solutions





### about AzCATI

The Arizona Center for Algae Technology and Innovation (AzCATI), located at ASU's Polytechnic Campus in Mesa, serves as a hub for research, testing, and commercialization of algae-based products. These include biofuels, pharmaceuticals, nutraceuticals, and other algae biomass coproducts. The center also serves as a learning environment for the next generation of scientists and engineers.

AzCATI provides open test and evaluation facilities for the algae industry and research community. The center can assess the performance of individual and combined unit operations across the algal value chain.



#### Connect

Serve as an intellectual and physical hub to foster local, state, national, and international research and education on algae-based solutions for a sustainable environment

#### **Advance**

Enable development of innovative and sustainable technologies for production of microalgae feedstocks for biofuels and bioproducts

#### **Collaborate**

Facilitate collaborations among universities, national laboratories, and industry to accelerate technology development and commercialization

#### **Educate**

Provide innovative learning and educational environments and opportunities for training next-generation scientists and engineers for the biotechnology workforce

#### Launch

Serve as a national test bed to accelerate algae technology development and commercialization



STRAIN DEVELOPMENT FEEDSTOCK PRODUCTION

HARVESTING & DEWATERING

DRYING & PRE-PROCESSING

EXTRACTION & CONVERSION

COMMERCIALIZATION & DEPLOYMENT





TRAINING



















CO-PRODUCTS

NON-FUEL LIPIDS



Arizona Center

for
Algae Technology and Innovation

# partners

AzCATI is administered and funded in part by Science Foundation Arizona and managed by Arizona State University. Partners include:

National Renewable Energy Laboratory
Sandia National Laboratories

Algasol

NanoVoltaix, Inc.

Raven Industries

Salt River Project

SRS Energy

**World Water Works** 

Heliae Development

Intel

Phyco Biosciences

Algae Biosciences Corp.

Litree

**QIBEBT** 

Dionex

Fluid Imaging Technologies
University of Arizona

## services

- Strain identification and evaluation
- Culture medium evaluation
- Culture systems design and evaluation
- Culture maintenance and operation protocol development
- Chemical and biochemical analysis
- Design recommendations for system integration and optimization
- Nutrient scaling, sustainability, and management
- Water conservation, management, and recycling
- Equipment evaluation and methods development
- Prototype unit operation assessment
- Process and techno-economic modeling
- Co-products identification and analysis

contact us

Arizona Center for Algae Technology and Innovation

7417 East Unity Avenue, ISTB-3 Room 103 Mesa, Arizona 85212 (480) 727-1410 **www.azcati.com** 



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asulightworks.com

