

INDUSTRIAL PLANKTON™

Algae Bioreactors

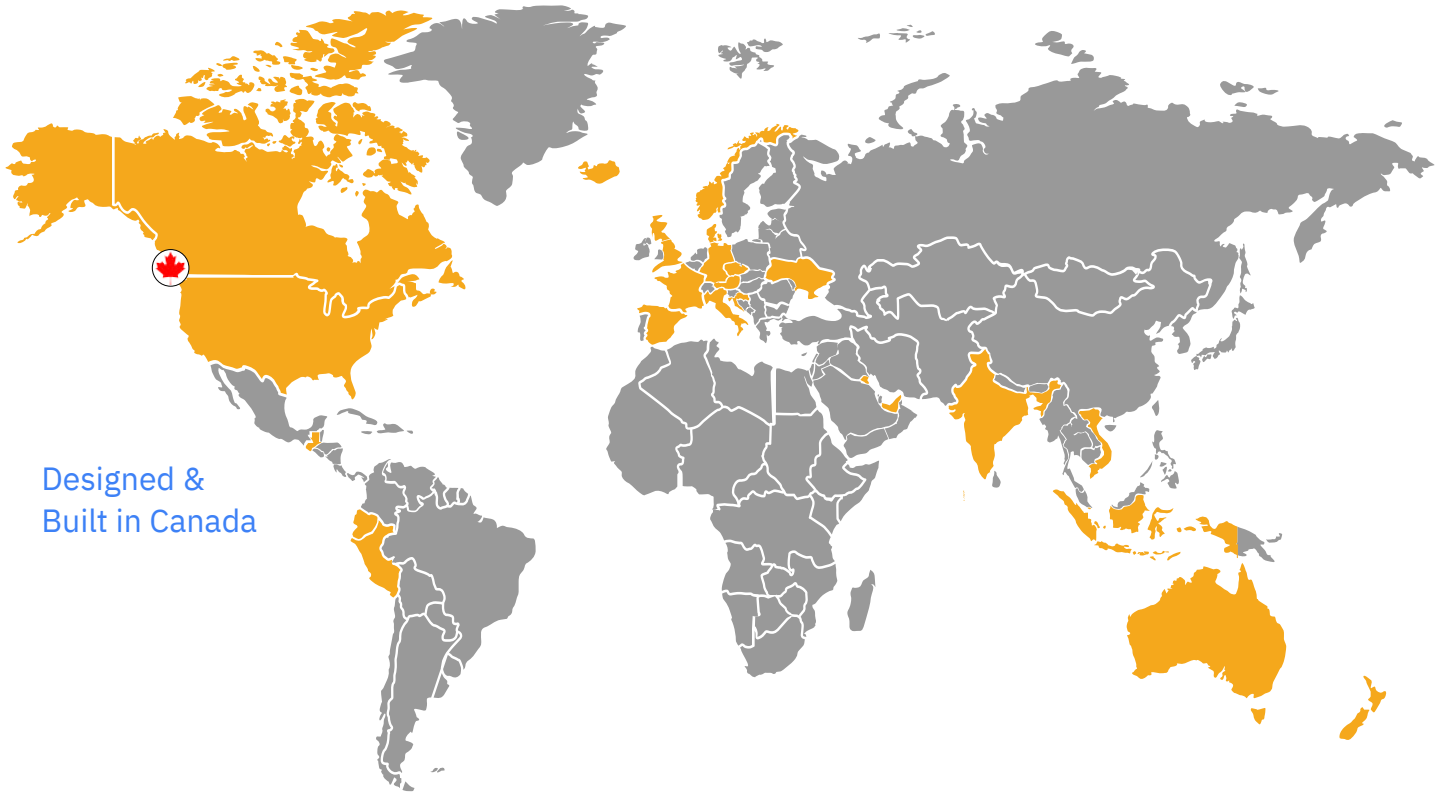


www.industrialplankton.com

Copyright Industrial Plankton Inc. 2022

Global Reach

Over **200** algae bioreactors used
by clients across **27 countries**.



Designed &
Built in Canada

**Industrial™
Plankton**

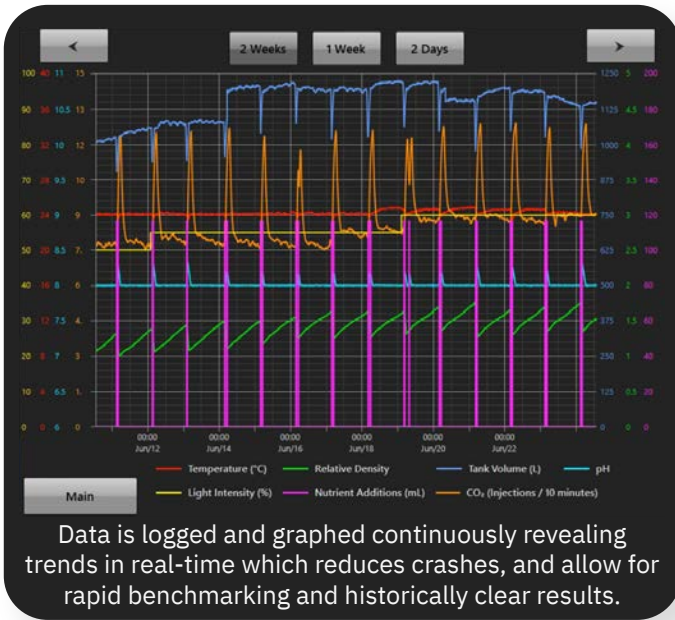
Accelerating R&D

When doing algae R&D, reliability, repeatability, and confidence in results are critical.

Producing significant quantities of biomass to trial new technologies is inconsistent, labour intensive and unreliable using traditional systems.

Our photobioreactors (PBRs) automate routine tasks like cleaning, harvesting, and media addition to increase reliability and reduce operating expenses.

Our PBRs reduce your time to market when producing biomass to prove out a new technology or strain.



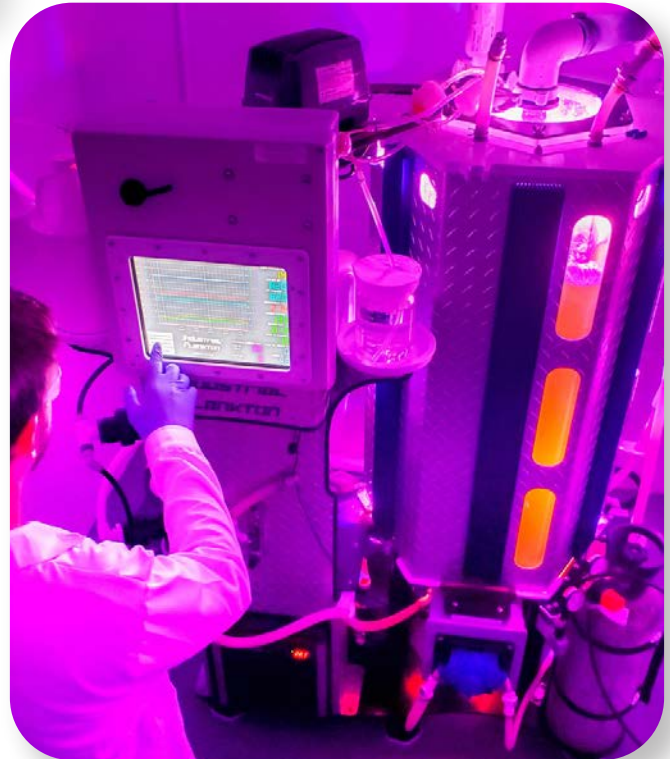
Algae Seed Train

Inoculating mass scale systems with poor quality algae reduces the daily yield, and increases downtime. These 2 factors can cripple the profitability of a production facility.

Industrial Plankton's closed PBRs are ideal for maintaining biosecurity and reducing labor when scaling production beyond flask and carboy cultures.

Our PBRs are ideal for producing clean inoculum for massive algae production systems, leading to reduced downtime and increased culture longevity of the massive culture.

These benefits reduce OPEX and improve profitability for mass production systems.



Five Easy Steps for Reliable, Biosecure Live Algae



Order & Install

Your turnkey algae equipment ships directly from our facility. Uncrate and set up in less than a day.



Harvest (2-4 months)

The PBRs reliably maintain a clean culture at high density for months at a time while harvesting continuously.



Clean (1 day)

Run the clean-in-place (CIP) system to sanitize the reactor before each inoculation without scrubbing any tanks.



Scale up (4-14 days)

Media is added automatically, while temperature and pH are continuously controlled to optimize conditions for



Inoculate (1 hour)

Inoculate with a small volume of clean algae using biosecure disconnects.

Algae Bioreactor Features



Biosecure Algae Cultures



LEDs Designed for Algae



Real-time Graphing and Data Logging



Integrated Cooling and Heating



Closed-Loop pH Control



Self Cleaning CIP System



Automated Scale-Up and Harvest



Remote Access

Photobioreactor Product Family



PBR 1250L



PBR 2500L



PBR 100L

Strains
That
Thrive

Tetraselmis spp. • *Rhodomonas* spp. • *Nannochloropsis* spp. • *Isochrysis* spp. • *Pavlova* spp.
Chaetoceros spp. • *Skeletonema* spp. • *Thalassiosira* spp. • *Phaeodactylum* spp. • *Karenia* spp.
Haematococcus spp. • *Spirulina* spp. • *Chlamydomonas* spp. • *Chlorella* spp. • *Cyanobacteria*

Typical production densities range from 0.3-1.3 g/L with harvest volumes of 10-50%



Industrial PLANKTON™

Global Innovation From Canada

Bioreactors for clean, on-site,
live algae production

Founded in 2010, Industrial Plankton Inc. designs and manufactures **turnkey bioreactors** in Canada for clean, on-site, live plankton production for **aquaculture, research lab, and biotechnology** uses.

Our algae bioreactors optimize for ease of use and **biosecurity**. Their automation increases culture **reliability** and saves operators countless hours. The result is **compact** equipment that **reliably** produces **biosecure, high-density algae**.



INDUSTRIALTM
PLANKTON

Industrial Plankton Inc.
3374 Burns Avenue
Victoria, British Columbia
V8Z 3P2, Canada

Contact Us
info@industrialplankton.com
www.industrialplankton.com
1 (844) 818-0304