

Sustainable Scalability

A Complete Solution for Scalable Cultured Meat Production

Our bioinformatics software systems and Lab Owl® smart bioreactor system create a complete solution to meet the complex demands of scaling cultured meat production.

Leverage the Power of Bioinformatics

Bioinformatics involves using data-driven insights to understand and manipulate cellular behavior. By analyzing vast amounts of biological data, our bioinformatics systems can help optimize the conditions under which cells grow, multiply, and develop into muscle tissue. This is particularly crucial when scaling up production, as it ensures that the processes which work in a lab setting can be effectively translated to larger-scale operations without compromising quality, safety, or efficiency.

- Accelerate processes using real-time data
- Ensure regulatory compliance
- Apply AI and ML to refine nutrient formulations
- Reduce volume of growth media
- Optimize growth factors

What sets our approach apart is not just its adaptability but also its remarkable impact on setup efficiency. Increase in the speed of implementation by up to 30 percent, dramatically reducing the time-to-value for your operation as you scale.



Bioinformatics empowers you with a comprehensive view of your systems and provides the strategic oversight necessary to steer complex decisions, ensuring that every move aligns with your objectives.

- Digital strategy / roadmap
- User requirement definition
- System architecture design
- Integration of IoT devices and sensors
- Integration of legacy systems with new technologies
- Data integration across different platforms and systems
- Managed Services and Support
- Process Optimization
- Analysis and improvement of control strategies
- Data Management and Analytics
- Advanced Analytics, AI/ML
- OT Cybersecurity / Network assessment
- Smart Manufacturing Solutions (MES/MOM)
- Supply Chain Digitization
- Documentation for regulatory compliance
- Configuration and programming (PLCs, SCADA, DCS)
- Custom software development
- System testing and troubleshooting
- Commissioning and start-up support
- Training
- Project Management
- SCADA, AI, DT as a Service

Contact Us

✉ info@inflexionpoint.ai

🌐 www.inflexionpoint.ai

Locations

- HQ: Neptune, NJ
- Satellites: Mid-Atlantic, South Atlantic, Midwest
- Presence: Pacific Coast, Canada, Europe



Accelerate with a Smart Bioreactor System

Lab Owl® Smart Bioreactor Control System is specifically tailored for cell culture, fermentation, regenerative medicine, and cell and gene therapy applications. It offers a unique blend of automation and control, providing users with unparalleled access and oversight over their bioreactor processes.



Enhanced Efficiency: Engineered with precision, Lab Owl optimizes nutrient delivery, oxygenation, and waste removal, ensuring that every process is optimized for efficiency and effectiveness, reducing waste and increasing yield.

Advanced Monitoring and Control: Equipped with state-of-the-art sensors and automated controls, you can monitor Lab Owl and adjust critical parameters in real time, ensuring optimal conditions for growth and production.

Reduced Environmental Footprint: Lab Owl minimizes resource consumption and waste production, contributing to a greener and more responsible future.

Modular Design: Lab Owl's modular architecture offers unmatched flexibility, Scale operations easily and adapt to changing requirements.

Streamlined Data Management: Lab Owl's integrated data management system simplifies data collection, analysis, and reporting, empowering you with actionable insights.

Trusted by Leading Companies

With 40 years of experience building and maintaining IT and OT systems for companies in regulated industries, we understand your business goals and how technology, intelligently deployed and managed, can help you achieve them. Our clients include:



Scale Safely, Sustainably, Significantly

Looking to grow? Let us help you scale your operation sustainably, using the power of analytics and automation.