

BioReact Cell Culture Optimization : Powered by Machine Learning



Our Opportunity

Problem worth solving

Finding the right set of parameters to control in bio manufacturing can be a challenging and time-consuming process that often requires extensive experimentation and data analysis.

Target market

1. Synthetic Biology
2. Cell & Gene Therapy
3. Biofuels
4. Food & Bev

Our solution

BioReact machine learning software solution improves bio manufacturing processes by optimizing pH, dissolved oxygen (DO), and other parameters to increase biomass, titer, metabolites, and more.

Competitors	How our solution is better
<i>FORMsightAI</i>	More market segments
<i>BioRaptor</i>	US-based, larger market
<i>JMP</i>	Addition of ML & focus on Bioreactors

Funding needed

\$750K

Funds used on team salary, server space, legal fees, NPD, and marketing efforts.

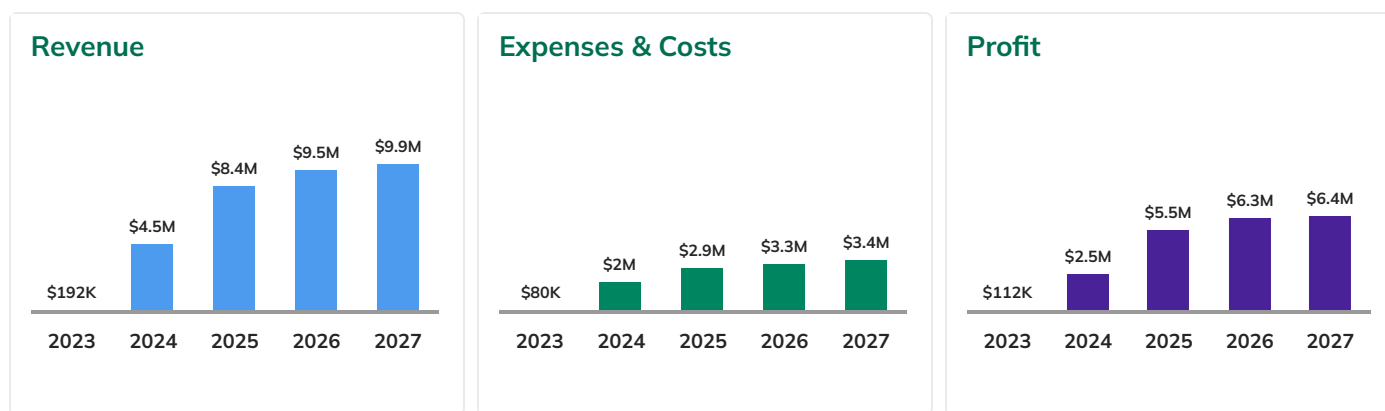
Sales channels

The BioReact executives team is currently handling all sales-related inquiries through our website and LinkedIn. Our team is in discussion with Benchling to become a preferred partner & distributor.

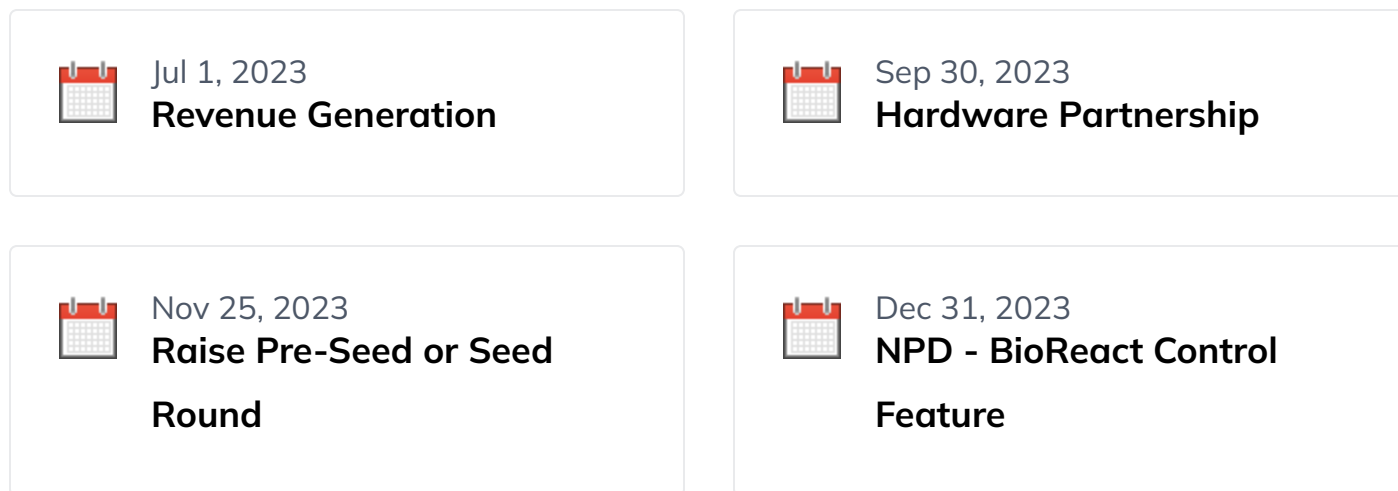
Marketing activities

BioReact marketing plans includes booths at tradeshows such as BioProcessing International, SynBioBeta, and more. We will also deploy digital marketing in the coming months which includes PPC, GEN Sponsorship, & Webinars.

Financial Projections



Milestones



Team and Key Roles



Mitchell Castetter
CEO



Alex Wissner-Gross
Founding Advisor



Andrew Chiappetta
Chief Scientific Officer

Partners and Resources



Genecis Bio

Genecis Bio has agreed to pilot the BioReact software to help bring bioplastics to market sooner.



NCERC at SIUE
Advancing Biorenewables Research

NCERC

The National Corn To Ethanol Research Center trusts BioReact as the backbone for their CDMO for biofuel production.



Benchling

Benchling

BioReact & Benchling will partner to help bring a more robust R&D platform to fermentation & cell culture customers.