Cellcraft

PRESSRELEASE

CELLCRAFT LAUNCHES WORLD'S FIRST AI ‘PLUG-ANDPLAY’ OPERATING SYSTEM FOR BIOREACTORS

Cambridge start-up’s technology turns bioreactors used for biomanufacturing, which includes biopharma, fermentation and lab-grown meat, into intelligent, autonomously-optimising systems

Cambridge, United Kingdom – 14 April 2026: Cellcraft has announced the launch of ‘Cellcraft IQ’ – the world’s first plug-and-play AI operating system for bioreactors – slashing inefficiency and costs whilst tackling key barriers for bio-manufacturing industries, including Biopharma (such as Vaccines, GLP-1s, peptides and therapeutics), precision fermentation, and lab-grown meat.

Bioreactors are specialised tanks used to grow cells in controlled conditions, forming the core production system behind bio-manufacturing industries.

Cellcraft IQ is an AI-native, cloud-based platform for bioreactor automation and optimisation and requires no infrastructure replacement, allowing remote deployment in under 12 weeks. The system integrates seamlessly with existing bioreactors, and operators will be able to run it in both advisory and fully autonomous modes, streamlining operations and improving consistency.

Following internal testing, Cellcraft IQ recorded a 99% reduction in control error, a 98% precision improvement and a 45% reduction in settling time compared to conventional bioreactor software.

Clarisse Beurrier, Chief Technology Officer at Cellcraft Ltd, said: “Today, bioreactors rely on outdated software and manual optimisation between runs, leading to inconsistent yields and high costs. Cellcraft IQ replaces this with real-time, AI-adaptive control, accounting for what cells need at every stage of a run, and enabling bioreactors to deliver consistent, high performance through advanced AI control that gets the biology right.

Yash Mishra, Chief Executive Officer at Cellcraft Ltd, said: “We are now deploying with our first partners and are actively looking for bioreactor companies who want to bring AI intelligence to their systems. Bio-manufacturing has the potential to transform how we produce food, medicine, and materials sustainably. Cellcraft IQ turns that potential into commercial reality.”

Vineet Gupta, Chief Executive Officer at Fermex, said: “We are excited to work with Cellcraft at the forefront of bioreactor technology.”

Dr. Rachel Hewitt, Assistant Research Professor at the University of Cambridge, said: “The integration of AI and biosensor technology represents a transformative advancement of bioreactors, delivering optimised performance with greater efficiency. Working with the innovative young start-up Cellcraft has been a reminder that bold ideas and fresh perspectives can transform entire industries when matched with passion and purpose.”

Jason Ng, Director & Manufacturing VP, Cell AgriTech, said: “We are proud to be selected as a technology partner by Cellcraft IQ in the scale-up validation and feasibility studies for next generation AI bioreactors, enabling a data-driven approach to achieve greater process consistency, enhanced performance and faster time-to-market product.”

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Notes to Editor

- Cellcraft is backed by both leading VCs and strategic investors, including one of the largest pork producers in Europe.
- Cellcraft has filed for two patents and has won non-dilutive grants worth over US $2 million, including in collaboration with the University of Cambridge.
- Supported by Innovate UK funding, a commercial pilot for Cellcraft IQ will soon be underway with an APAC bioreactor company.

About Cellcraft

Cellcraft IQ is the intelligence layer for bio-manufacturing. Cellcraft was founded by 2 University of Cambridge research students – Yash Mishra and Clarisse Beurrier – and has been selected for the NVIDIA Inception Program, TechCrunch Start-Up Battlefield, Blue Earth 100, and Innovate UK Global Incubator Programme (Singapore). Today, Clarisse has been announced as one of the 'Forbes 30 – Under 30 Social Impact Leaders' for 2026.

It won the Deep Biotech Company Showcase at BIA TechBio UK 2025 and was named 'Most Investable Startup' at AI Founders Connect R14 (2026) and has also been showcased by Innovate UK and the UK government Department for Business and Trade. Furthermore, Cellcraft and/or its founders have been selected for numerous accelerator/incubator programmes, including the Royal Academy of Engineering Shott Scale-Up Accelerator, Big Idea Ventures Accelerator, Accelerate Cambridge (University of Cambridge Judge Business School), etc.

To make Cellcraft IQ even more powerful, Cellcraft has novel bioelectronic sensors (patent-filed) that provide real-time cell data (including state and type)- a key unmet need. Cellcraft has a platform for generating immortal, non-GMO cell lines across species, which are available to purchase now. Cellcraft's long-term vision is to create Autonomous AI Bio-Factories by combining Cellcraft IQ with its other IP, such as sensors and cells, for easy adoption without expertise or R&D. This can unlock industries like lab-grown meat, empowering food producers to make tailored cultivated meats/fat locally, with no antibiotics and less land, water, and emissions.

For more information on Cellcraft, visit our website: https://www.Cellcraft.com/

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