



Entity Profiles

14th CDTI-NEDO

Workshop 2026



*“Scouting for Industrial R&D Collaborations
with Japan in the field of
Food Technologies”
Bilbao, May 27th, 2026*

JAPANESE COMPANIES

KAICO Ltd.



<https://www.kaicoltd.jp/en/technology-en/>

KAICO is a biotechnology start-up developing a proprietary protein production platform that utilizes silkworm pupae as living bioreactors. Leveraging this unique technology, KAICO enables the efficient production of high-function recombinant proteins that are difficult to express using conventional microbial or mammalian cell-based systems.

By supplying recombinant proteins applicable to pharmaceuticals, vaccines, and research, KAICO helps overcome longstanding technical limitations and supports innovation in both industrial applications and life science research.

Building on this platform, KAICO is developing in-house infectious countermeasures, including the functional feed additives that enhance immune responses in livestock, edible vaccines for companion animals, and a human norovirus vaccine, which is scheduled to enter the phase 1 clinical study in 2026.

Particularly regarding the functional feed additives, by shifting from labor-intensive individual vaccination to feed-based, scalable immunization approaches, KAICO aims to improve both human and animal welfare while contributing to more sustainable and efficient health management systems.

KAICO is driven by its mission, "Changing the World with Silkworms"!

bitBiome, Inc.



<https://bitbiome.bio/>

bitBiome is a biotechnology company unlocking the potential of microbial life to power the global bioeconomy. Originally founded on technology developed at Waseda University, our platform is built on bit-MAP®, a proprietary single-cell microbial genome analysis technology.

This foundation has enabled bit-GEM: an extensive database of over 2.5 billion microbial sequences, the vast majority of which are unique and absent from public repositories. By leveraging this unprecedented dataset, we have developed specialized AI models trained directly on our proprietary microbial DNA database to navigate the complexities of genetic code.

Our bit-QED platform utilizes this AI and bioinformatics expertise for rapid enzyme discovery and the precise engineering of pathways and proprietary strains. This allows bitBiome to develop and manufacture bio-based products more affordably and efficiently than ever before. We are committed to transforming biomanufacturing by delivering nature-inspired solutions that are otherwise unattainable, driving a sustainable future for industries ranging from healthcare to agriculture.

UMITRON K.K.



<https://umitron.com/en/index.html>

UMITRON is a deep-tech company based in Japan and Singapore, dedicated to its mission to "Install Sustainable Aquaculture on Earth" through advanced data platforms integrating IoT, satellite remote sensing, and Artificial Intelligence (AI).

We provide a comprehensive suite of solutions, including AI-driven automated feeding machines that optimize feed efficiency and reduce environmental impact by 20%, alongside satellite-based environmental analysis services for site selection and farm management.

We take particular pride in our AI technologies as decentralized systems capable of operating in offline and off-grid environments. Furthermore, we are expanding our scope to enhance the entire aquaculture value chain through strategic partnerships with feed manufacturers and ingredient suppliers.

By integrating our data-driven insights with next-generation feed development—such as promoting low-fishmeal diets and collecting critical field data for R&D—we aim to accelerate the industry's transition towards a more sustainable and transparent future.

Recognized globally for our innovation, UMITRON is committed to scaling the blue economy and securing a stable food supply for the growing global population.

EF Polymer K.K.



<https://www.efpolymer.com/en-us/technology>

EF Polymer is an Indo-Japanese agri-biotech company that converts fruit processing waste into a 100% biodegradable superabsorbent polymer, engineered to build crop resilience under drought. Fully certified by ECOCERT, CE Mark, and OMRI.

Active across Asia, the Middle East, the United States, and Europe, EF Polymer is expanding with a single commercial focus: helping farmers de-risk their exposure to the input shocks they cannot control, while rebuilding the soil conditions that make crops worth growing.