



PRINT YOUR FUTURE IN 3D

Who are we?

COLFEED4Print is a technology-driven start-up spin-off from CSIC, a pioneer in the development of composite functional materials for 3D printing.

Our mission is to provide innovative products for printing technologies that focus on bone and tissue regeneration, energy and catalytic systems and decoration sectors. We aim to solve the demand of advanced materials for new processing challenges, while promoting a circular economy, free of waste and environmentally neutral.

Exclusive technology

Our **PATENTED** technology (PCT ES2019070348S), allows integrating nanoparticles into a biomass-derived thermoplastic matrix, enhancing performance, sustainability and efficiency, and also the functionality of 3D printed parts while reducing time to market.

Team

The participation of the co-founders in the company is key due to their qualifications and demonstrated professional experience in research and technological cooperation in industrial environments, which ensures the disruptive innovation for any project developed to pursuit industrial objectives.

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Biomaterials for 3D printing

Helping companies and researchers

Additive manufacturing is driving industrial transformation, where **Material Thermal Extrusion** (MTE)—using granules (FGF) or filaments (FFF)—stands out for its **cost-efficiency and versatility**, making it ideal for in-house production.

At COLFEED4Print, we develop **innovative materials** that enhance 3D printing capabilities and open new possibilities for industrial production and prototyping. Our scalable manufacturing process enables the fabrication of **tailored materials with unlimited formulations**, enhanced **mechanical properties, printability, and biocompatibility**, meeting specific industry needs.

By combining **innovation, sustainability, and customization**, COLFEED4Print is redefining next-generation additive manufacturing solutions.



Our products: ClinicOss®

The biomedical sector, particularly dental and oncological implantology, demands **cost-effective biomaterials with high performance**, biocompatibility, and regulatory compliance.

COLFEED4Print addresses this with **ClinicOss®**, an **osteoconductive PLA-HA composite** designed for **on-demand, patient-specific bone-regenerative implants** using widely available, low-cost 3D printing technologies. Our biocompatible implants eliminate secondary surgeries improving patient outcomes, reducing costs, and making advanced regenerative solutions more accessible.

Future goals and milestones

With certification and regulatory approval as a priority, COLFEED4Print is committed to bringing **ClinicOss®** to market as a **licensed, printable biomaterial for in-house implant production** and setting the foundation for **RegeneraOss®—customized, CE-certified regenerative implants**.

Therefore, over the past two years, COLFEED4Print has:

- Established ClinicOss exclusive production line.
- Apply for ISO 13485 certification for FOss-HA's manufacturing process
- Developed a sterilization process for composite filaments, ensuring product integrity
- Launched regulatory preparations to obtain a Custom Medical Device License