



Biomedical Design and Manufacturing

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Message from the Guest Editors

This Special Issue of *Bioengineering* aims to collect manuscripts that highlight new findings, concepts, designs, processes, and technologies advancing the state of the art in biomedical design and manufacturing. The topics of interest include but are not limited to the following:

- Biomedical manufacturing processes (both additive and subtractive) of soft constructs, metallic and ceramic implants, polymeric and composite materials, pharmaceuticals and biomedicine, and other biomedical applications;
- Biological tissue cutting, removal, ablation, and/or joining processes;
- Design, manufacturing, and/or modeling of advanced medical devices, tools, surgical robotics, and medical simulators;
- Micro- and multi-scale manufacturing for biomedical applications;
- Design, characterization, and modeling of biomedical and biological materials and related manufacturing processes;
- Application of machine learning and artificial intelligence in biomedical manufacturing and medical devices;
- Reviews of the current state of knowledge and technology and of research needs in biomedical manufacturing.





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Message from the Editor-in-Chief

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Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

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