

# Our Team



**DR. MARIA KITSARA** is a Materials Engineer with an MSc in polymer science and a PhD in the area of miniaturized biosensors, and works as Lead Research Manager on Biomedical applications at BioG3D. She worked in several competitive research projects, while she was researcher at numerous institutions in Europe focusing on the areas of biosensors, microfluidics, biomaterials for tissue engineering and regenerative medicine. Her research interests revolve around the development of materials and devices for biomedical applications that include both diseases diagnosis and therapy. She is the author of more than 40 peer-reviewed publications and the co-inventor of 3 patents.

**IAKOVOS GAVALAS** is a Materials Scientist from University of Crete. He obtained his first MSc in Advanced Materials Science, while currently he attends a second MSc in Biomedical Engineering. He has lab experience in 3D bio-printing for tissue regeneration and microfluidics, and bio-microfabrication. He is also skilled in CAD designing and Computational Fluid Dynamics. Currently, his research activities are focused on microfluidics and 3D biofabrication for tissue engineering and Organ-on-a-Chip applications.

**PANAGIOTIS ZOUBOULIS** is a Mechanical Engineer with an MSc in Automation Systems and hands-on experience in numerically controlled machines (CNC) and industrial robotics. His scientific interests include 3d printing techniques for application with various materials and use of robotic manipulators for process automation. He is skilled in mechanical design and reverse engineering. His current research involves developing custom electromechanical systems for additive manufacturing equipment and robotic 3D printing.

## *Main contact in the project:*

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## Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications.

[www.m3dloc.eu](http://www.m3dloc.eu)



### BioG3D – New 3D printing technologies

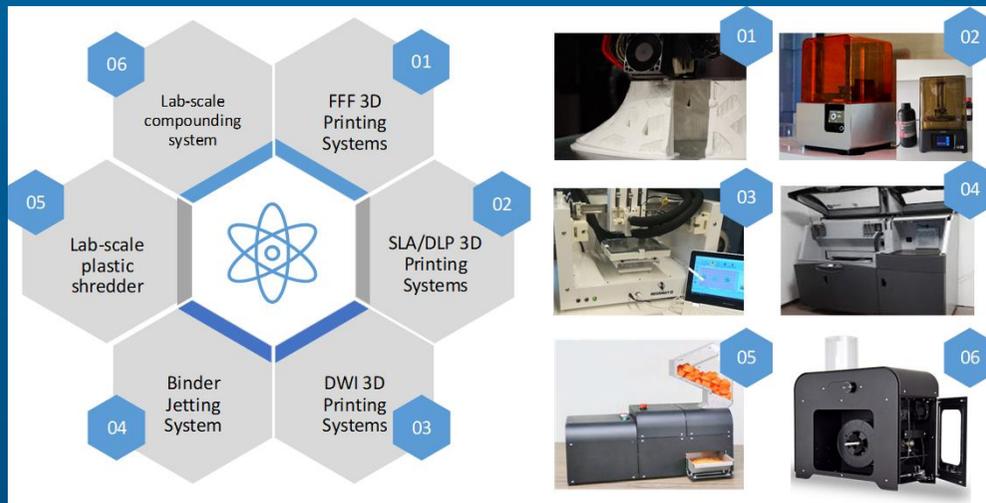
<http://biog3d.gr/>



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# Who we are

BioG3D is a company headquartered in the premises of Technological Cultural Park of Lavrion (Athens) in Greece. It specializes in Additive Manufacturing technologies, Reverse Engineering, Bio(nano)materials synthesis and Toxicological Assessments of engineered materials in the macro-, micro- and nano-scale. BioG3D is an ambitious SME focused on the development of innovative nanotechnology solutions and optimization of “smart” customized products and is equipped with advanced 3D printing and 3D scanning systems, along with design and modelling software to deliver upon request, advanced products with specific functionalities and increased accuracy. The expertise of BioG3D in *in vitro studies* assists on the manufacturing of safe products, thus enhancing confidence of consumers and relevant stakeholders and confront the inherent public mistrust to new technologies, by bringing to the market new products with safety. Furthermore, BioG3D expands its activities in the development of 3D microfluidic MEMS for Lab-on-a-Chip applications, 3D Printing of bio-scaffolds, and the fabrication of non-conventional, complex structures for cell culture systems.



# Our product & services

Complete spectrum of 3D printing services, offering the possibility to make ideas 3D printable in a wide variety of materials compositions, colors and textures. Complex structures can be easily fabricated in a personalized cost-effective way.

- ✓ On demand fabrication of 3D printed objects in all sectors of everyday life by replicating objects through 3D scanning or by designing from scratch a 3D model. BioG3D's goal is to deliver high-value design services, product materialization and rapid prototyping services to clients everywhere to facilitate new products market entrance.
- ✓ Development of smart materials (as feedstock materials for 3D printing) incorporating specific nanoadditives to achieve improved or new functionalities in the 3D printed objects.
- ✓ Toxicological evaluations through *in vitro* a of any type of engineered material (macro-, micro- and nanoscale).
- ✓ Development of hybrid materials through 3D printing for biological applications targeting Tissue Engineering.

