



## **THOMAS BOLAND, PH.D.**

**Professor, Metallurgical, Materials and Biomedical Engineering (MMBME)  
Director, Biomedical Engineering Program  
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The University of Texas at El Paso**

Dr. Boland's research interests are applying engineering principles to build three dimensional structures that show biological function. Recent research assessed whether printed adipose tissues integrate with the host better than conventionally grown. Specifically, he is constructing adipose grafts using a bioprinter and measure anastomoses in vitro. His research will collect preclinical data supporting bioprinting applications for medical products. He is the inventor of bioprinting, or live-cell tissue printing, and has been the founder of this field of research. He has received over \$43.5M in research funding for his work. He has received numerous awards and was featured on CNN and the Discovery Channel for his groundbreaking innovations using inkjet printers to assemble cells and biomaterials into viable and functioning structures. He is the author of more than 70 publications, including 3 invited reviews and chapters, and he has delivered more than 25 invited presentations. He is a member of the AVS, MRS, the Society for Imaging Science and Technology (IS&T) and the Tissue Engineering and Regenerative Medicine International Society (TERMIS). Thomas is the co-founder of TeVido biodevices, a company that is commercializing a bioprinted nipple areola complex for breast cancer survivors.