



SESAM 2026 Pre-Congress Workshop

3D Printing Primer for Simulation - How to create solutions to everyday problems

Faculty



This workshop is delivered by **SimGhosts**:

- Nadir Ayrad, SimGhosts Board Member, Director, Healthcare Simulation, Research and Development, Fundacion Garrahan
- Scott Crawford, SimGhosts Past President and Treasurer, Director of the Training and Educational Center for Healthcare Simulation (TECHS), Associate Professor - Department of Emergency Medicine - Paul L. Foster School of Medicine at TTUHSC El Paso

Workshop details

- **Date:** Tuesday 16 June 2026
- **Timing:** 13:30 - 16:30
- **Duration:** 3 hours

Session Overview

3D printers are very inexpensive and have amazing capabilities for medical education, rapid prototyping, and repetitive design; especially in simulation. This course will review current 3D printing technologies and allow a brief tutorial on how to design and process 3D print files using free CAD software. Participants will also be given instruction on how to search and share existing 3D print files. Practical applications for task training construction will also be described.

Key Takeaways:

- Describe 3D printer material types
- Understand the features and limitations of current 3D printers and how to find and load print files
- Design a simple 3D model for use in Simulation
- Explore example solutions from simulation centers around the world