Introduction to 3D Plastic Printing

Tuesday, February 4, 2020
12.00 p.m. – 3.00 p.m.
Building 4, level 0, room 0147 (sea side)

3D printing, or additive manufacturing, is the process of creating three-dimensional solid objects from a digital file. The process is achieved by laying down successive, thin layers of material until the desired object is completed. Two methods of achieving this process are fused filament fabrication and polyjet. The training session, run by the Core Labs Central Workshops, will mainly focus on the fused filament fabrication method. This method passes thermoplastic filaments through an extrusion nozzle head, which heats up the material and turns flow on & off. A PolyJet 3D printer works like an inkjet printer. Instead of jetting drops of ink, the printer jets drops of photopolymer that solidify when exposed to UV light.

The training session will include:

- An explanation of the different techniques used in 3D Printing or additive manufacturing
- A brief on the range of 3D Printers available in the Central Workshops
- A discussion on how to bring a component for 3D Printing
- The file types required (converting files) STL etc. & the different software used by the range of 3D Printers available at the Central Workshop
- A demonstration of fused filament fabrication using several of the 3D Printers in the lab
- A demonstration of the polyjet process on the J750 3D printer

Who is it for?

This session is for students, researchers, scientists, and engineers who are interested in learning the 3D Printing process, and in utilizing it for manufacturing components & prototypes for their research.

Register now!

Please register in a timely manner as seating is limited. For registration and further information, please contact Tayyab.Mubeen@kaust.edu.sa.