



SAINT LOUIS UNIVERSITY

# Center for Additive Manufacturing

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The mission of the **SLU Center for Additive Manufacturing (SLU-CAM)** is to provide high-end additive manufacturing capabilities and 3D object design consulting for SLU researchers, as well as support external and community users in clinical, research, and commercial endeavors. The capabilities and expertise of the Center are far ranging, encompassing builds from clinical to chemical and art to engineering. Coincident with the greater University mission, SLU-CAM also aims to help educate the next generation of users on the latest trends in additive manufacturing and 3D design.

Free quotes and discussion for any design...just e-mail us at [slu.cam.edu](mailto:slu.cam.edu).

## Stratasys J735 (PolyJet)



### Materials:

Agilus (rubber-like)  
Vero (hard plastic)  
UltraClear  
Full color  
SUP706 (soluble support)

### Build Volume:

13.8 x 13.8 x 7.9"  
(350 x 350 x 200mm)

### Capabilities:

- Multi-color & durometer
- Fast build times
- Smooth, detailed prints
- Product realism

### Applications:

- Rapid prototyping
- Concept models
- Medical models
- Jigs & fixtures
- Colored models

## Fortus 450mc (FDM)



### Materials:

ABS-M30, ABS-M30i,  
ABS-ESD7, Antero  
800NA, ASA, PC-ISO, PC,  
PC-ABS, FDM Nylon 12,  
FDM Nylon 12CF, ST-130,  
ULTEM™ 9085 resin,  
ULTEM™ 1010 resin

### Build Volume:

16 x 14 x 16"  
(406 x 356 x 406mm)

### Capabilities:

- ±0.005" (0.127mm) accuracy
- 0.005-0.013" (0.127-0.330mm) slice height

### Applications:

- Functional Production Quality Parts
- Higher temperature applications
- Rapid Prototyping
- Rigid Mechanical Parts
- Rigid Assemblies with Moving Parts

## Photocentric LC Opus (SLA) and others



### Material Resins:

General Purpose  
Multi-color  
Clear  
High-strength  
Wax-like (for casting)

### Build Volume:

12 x 7 x 8"  
(310 x 174 x 220mm)

### Specifications:

- 0.012 – 0.1mm layer height

### Applications:

- Low-cost Rapid Prototyping
- Art Replicas
- High-detail prints
- Tooling (casting and molding)



## Objet Eden 260v (PolyJet)

### Materials:

MED610 Biocompatible  
SUP705

### Build Volume:

10 x 9.9 x 7.9"  
(255 x 252 x 200mm)

### Capabilities:

- Fast build times
- Smooth, detailed prints
- Product realism

### Applications:

- Rapid prototyping
- Concept models
- Medical models
- Jigs & fixtures
- Colored textures



## Fortus 250mc (FDM)

### Materials:

ABS Plus  
SR-30 Soluble Support

### Build Volume:

10 x 10 x 12"  
(254 x 254 x 305mm)

### Capabilities:

- ±0.0095" (0.241 mm) Accuracy
- 0.007-0.013" (0.178--0.330 mm) Slice Height

### Applications:

- Functional Production Quality Parts
- Rapid Prototyping
- Rigid Mechanical Parts
- Rigid Assemblies with Moving Parts



## Go!Scan 3D Portable 3D Scanner

### Function:

Creates color 3D surface model of an object, suitable for 3D printing or further CAD processing

### Specifications:

- Up to 0.05 mm Accuracy
- 0.10 mm Resolution
- 10 cm to 3 m Object Size

### Applications:

Creating a 3D model of objects that do not have a CAD model.



## Standard CAD Platforms

- Solidworks and Autodesk
- CAD drawings **NOT REQUIRED**. We can take a sketch and create a CAD drawing.



## Mimics (Medical Imaging to CAD)

- **Capabilities:** Medical image processing/slicing; formation of 3D model from medical image scans based on X-ray attenuation; export of models to .STL file format
- **Main Application:** Conversion of a medical image (such as a CT scan) of an object

