



The University of Vermont

IMF Instrumentation & Model Facility

PolyJet 3D Printing Services

The Instrumentation & Model Facility (IMF) has been the centralized design and fabrication facility in the UVM community for over forty years. IMF's 3D printing capabilities are the latest addition in their vision to provide cutting-edge and innovative engineering technology services and products.

IMF 3D printing is used for:

- **Academic**
- **Medical**
- **Commercial applications**

IMF works directly with Vermont Center for Emerging Technology (VCET) clients, emerging technology companies, inventors, and entrepreneurs. IMF serves as a resource for new companies by providing **initial consultation at no charge**.

3D printing, also known as rapid prototyping, breaks down a 3D computer file into layers and "prints" the data in an additive process to build a fused physical structure.

IMF can take your 3D computer image file and produce a physical object in a matter of hours. The objects produced can be used as:

- **Parts – both rigid and flexible**
- **Assemblies – instruments, structures, or products**
- **Models for research, instruction, or demonstration**
- **Molds for parts and products**

Why work with IMF?

- *Our great staff*

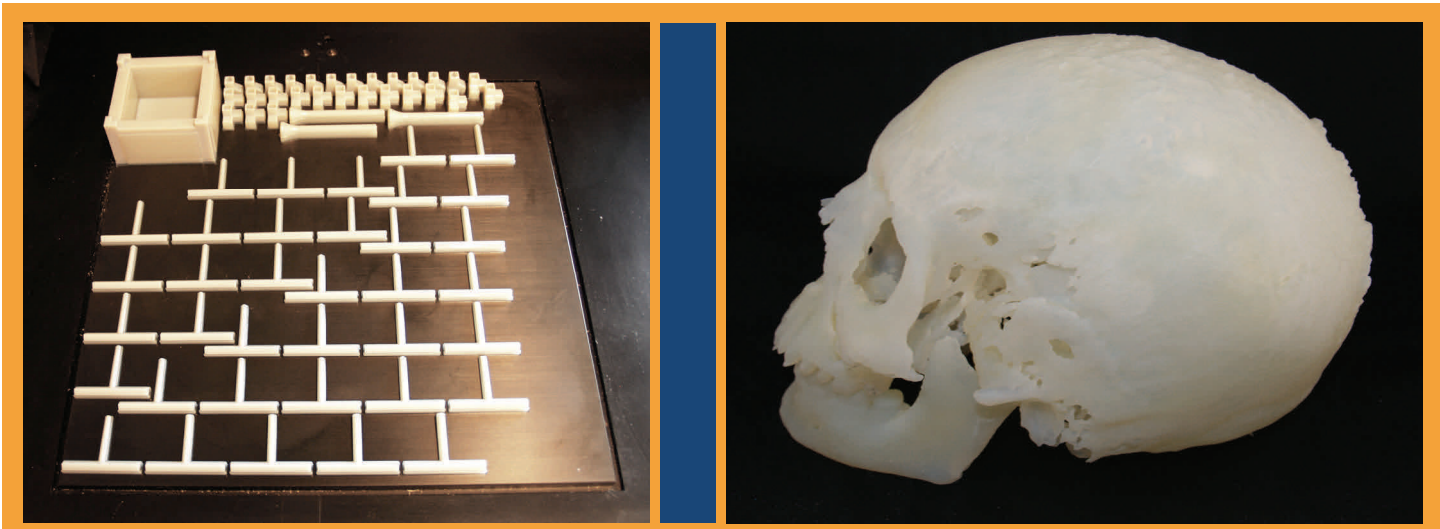
Experienced, trusted, courteous, and responsive

- *Established track record of innovation*

Founded in 1967 as a centralized UVM campus source for research instrumentation, models, and parts

- *Exceptional resources for custom design*

Complete machine shop facility
Objet Polyjet technology
Electronics shop
Embedded systems development



The **Objet Geometries Inc. Eden 350V PolyJet 3D Printer** is one of the most versatile available with the following capabilities:

- Highest resolution—16 micron layers, 600dpi X & Y accuracy, and wall size down to .02”
- Build size up to 13.4”x 13.4” x 7.9”
- Choice of materials—transparent and colored rigid parts with excellent flexibility, strength and durability, medical grade materials, a range of flexible, rubber-like parts, and paintable
- Common 3D computer file formats accepted—.stl and .slc; File conversion services available for other formats
- Multiple parts can be printed at one time—depends upon the part size and use of the same materials
- 24 hour turnaround on quotations if a computer file in the .stl format is provided via email
- 24 hour turnaround on completion of parts and assemblies is possible



“Eden350V... 3-Dimensional Printing Systems utilize Objet’s advanced Eden platform, providing the market’s most productive, flexible, and high-quality way to compress the product design-to-manufacturing cycle.

Eden350V... is based on Objet’s PolyJet photopolymer jetting technology. PolyJet technology enables horizontal layers of just 16-micron (0.0006”), exceptionally fine details, and ultra-thin walls down to 0.1-0.3mm typical.”

—Objet.com

Instrumentation & Model Facility

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