

JUSTIFICATION FOR SOLE SOURCE or BRAND NAME SPECIFIED
(Simplified Acquisitions <\$150K)

The service or material listed on N0016116RCZ0178 is *brand name* and competition is precluded for reasons indicated below. There are no substitutes available for this material or service.

Restricted to the following source (If a sole source manufacturer distributes via dealers, ALSO provide dealer information):

Manufacturer: Stratasys

Manufacturer POC:

Manufacturer Phone: (800) 801-6491

Manufacturer Address: 7665 Commerce Way
Eden Prairie, MN 55345

Dealer / Rep / Recommended source: Amtek Company, Inc.

Dealer / Rep / Recommended source address: Amtek Company, Inc.
1244 Ritchie Hwy, Suite 10
Arnold, MD 21402

Dealer / Rep / Recommended source phone #: Rich Sykes, (800) 926-8359

- Description of the item or service required, the estimated cost, and required delivery date.

This procurement is for the Stratasys Objet 30Pro Education Bundle. The cost is for the bundle which includes, starting material, installation and training, and dedicated host computer with the required software. This 3D printer equipment is required for ongoing and imminent research projects for 2016 academic year. Delivery is required by 02/05/2016.

- Specific characteristics of the material or service that limit the availability to a sole source / brand name (unique features, function of the item, etc.). Describe in detail why only this suggested source / brand name can furnish the requirements to the exclusion of other sources / brands.

The Objet 30Pro is a commercially available desktop-size printer that meets our current and future research project demands in terms of accuracy, resolution, build size, and consistency, at that price and point size. The printer utilizes patented PolyJet 3D technology and is capable of producing parts with 34 microns of lateral resolution and 16 microns of vertical resolution, with a net build size of 294 x192x 148.6mm.

Other 3D printers with similar specifications, however, based upon different technology, and similar price point were tested, where sample parts were analyzed (printed and measured), however they failed to meet the minimum requirements of current research projects in terms of resolution, accuracy and reproduction of all topographical features, i.e. producing parts that do not faithfully represent the digital counterparts. On the other hand, parts produced by the Objet 30Pro did meet the minimum requirements, with satisfactory agreement with the digital model due to the PolyJet 3D technology.

CHECK & FILL IN ALL APPLICABLE BLANKS BELOW

The requested material or service represents the minimum requirements of the government.

The material/service must be compatible in all aspects (form, fit and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect, or interface with the existing system.

The additional printer procured with this purchase will provide additional capability, yielding about 7 times the resolution of the current ones. The Objet 30Pro is fully compatible with the current system, which includes both materials and software (client-job manager). Additional challenges with interoperability could potentially make current research time-prohibitive.

A patent, copyright or proprietary data limits competition. The proprietary data is...

Stratasys holds the patent for the PolyJet 3D technology, that is found on the Objet 30. This technology used inkjet-like spray deposition, providing high resolution parts with close to zero waste. Other photopolymer 3D printers use an open reservoir of liquid from which the part is grown that results in more cost, more required infrastructure, and more waste. Amtek Company, Inc. is the distributor of Stratasys products for the education market in Maryland.

These are "direct replacements" parts/components for existing equipment.

Other information to support a sole source / name brand buy:

Consequently, there is a large pre-existing "know-how" from the users, in addition to support, maintenance, and compatibility with existing materials. However, these printers are old (2 years or older), and their output is inconsistent and technology are not suitable for the current ongoing research projects. The new requested 3D printer is also meant to complement/augment our existing 3D printing capabilities.