

Detailed Bid Specifications  
Reference: TAMU-ITB-0458  
3D Printers

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p><b>**Please note:</b> This bid has been posted on the Electronic State Business Daily (ESBD) website: <a href="http://esbd.cpa.state.tx.us/">http://esbd.cpa.state.tx.us/</a> It is the bidder's responsibility to check this site for any addendum's that may be posted.**</p> <p>Texas A&amp;M University, College Station, TX is seeking bids for 3D Printers meeting the following terms, conditions and specifications as listed below.</p> <p><b><u>Award Criteria:</u></b></p> <p>The award shall be made based on the following "Best Value Criteria". Texas A&amp;M University reserves the right to consider the following and any other factors deemed necessary to evaluate the offer and determine the "Best Value" for the University.</p> <ul style="list-style-type: none"> <li>- Vendor's ability to meet the minimum specifications</li> <li>- The acquisition price</li> <li>- Delivery may be a factor.</li> <li>- Experience/past experience with vendor</li> <li>- The quality; availability of services offered to required application</li> </ul> <p>Texas A&amp;M University reserves the right to make the decision as to what products best meets the minimum specifications and which products best suits the needs of the University. Texas A&amp;M University decision is final.</p> <p>Texas A&amp;M University reserves the right to accept or reject any or all bids, to waive informalities and technicalities, to accept the offer considered to be the most advantageous to the University.</p> <p><b>Vendor must provide detailed specifications, brand name, manufacturer and model number of product they are bidding along with specification and literature sheet. Failure to do so may result in the disqualification of your bid.</b></p> <p>*****</p> <p style="text-align: center;"><b>Attention Bidders</b></p> <p>Texas A&amp;M, Procurement Services is transitioning to an E-commerce system for all invitation for bids and</p>					

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	<p>purchase orders. We are asking all vendors to take a few moments and register as one of our vendors. This will allow you to respond to our bid invitations electronically as well as view other bid opportunities. Please visit the following website to register:  <a href="https://bids.scquest.com/apps/Router/PublicEvent?CustomerOrg=TAMU">https://bids.scquest.com/apps/Router/PublicEvent?CustomerOrg=TAMU</a></p> <p>If you have any questions in reference to registrations, please contact us at 979-845-2325.            *****</p> <p>All invitation for bid documents not submitted electronically via the AggieBid system will only be accepted via the following methods:</p> <ul style="list-style-type: none"> <li>-Faxed to (979) 862-3383</li> <li>-Express Mail (FedEx, UPS, etc.)</li> <li>-US Postal Service</li> <li>-Hand Delivered</li> </ul> <p>At this time, no email responses are acceptable. If your response is received via email, your response may be disqualified.</p> <p>All invitation for bid documents not submitted electronically via the AggieBid system must be returned on our form.</p> <p>As a bidder responding to this invitation upon submission of your response, regardless of the format of your submission, you and the entity you represent are agreeing to the terms and conditions presented here as well as the TAMU terms and conditions located at:  <a href="http://purchasing.tamu.edu/media/123743/bid tamu.pdf">http://purchasing.tamu.edu/media/123743/bid tamu.pdf</a></p> <p>Physical Address:</p> <p>Texas A&amp;M University            Procurement Services            Agronomy Road            College Station TX 77843-1477            Fax - 979-862-3383</p> <p>NOTE: If responding manually, please submit with your bid response a W9. This will allow us to enter your company into our bid system and include your response on the electronic tabulation.</p>					
1	<p>Ultimaker S5 3D Printer.</p> <p><b><u>Meeting the following specifications:</u></b></p> <ul style="list-style-type: none"> <li>- Dimensions (including Bowden tube/filament spool holder): 49.5 x 58.5 x 78 cm (19.48 x 23.03 x 30.7 in.)</li> <li>- Filament (included): Tough PLA 750g spool,</li> </ul>	6	EA			

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	<p>PVA 750g spool</p> <ul style="list-style-type: none"> <li>- Spare Parts (included): 2 x AA build material print core; 1 x BB support material print core</li> </ul> <p><b><u>Includes Accessories:</u></b></p> <ul style="list-style-type: none"> <li>- Spool Holder</li> <li>- Glass Buildplate</li> <li>- Aluminum Buildplate</li> <li>- Glue Stick</li> <li>- Power Cable</li> <li>- USB Drive</li> <li>- Test Print</li> <li>- Grease (for z-screw lubrication)</li> <li>- Sewing Machine Oil (for Printhead rod lubrication)</li> <li>- Hex Screwdriver</li> </ul> <p><b><u>Electrical:</u></b></p> <ul style="list-style-type: none"> <li>- 24V DC @ 9.2amps</li> <li>- 100-240V / 6A / 50-60HZ / 500W max</li> </ul> <p><b><u>Printing:</u></b></p> <ul style="list-style-type: none"> <li>- Print Head: Dual-extrusion head with a auto-nozzle lifting system swappable print cores (maximum 280c)</li> <li>- Extrusion Speed: &lt;24mm<sup>3</sup>/s</li> <li>- Travel Speed: 30 – 300 mm/s</li> <li>- Build Platform: Heated glass build plate, heated aluminum build plate (maximum 140C)</li> <li>- Bed Leveling: Active</li> <li>- Nozzle Diameter: 0.4mm Print Core</li> <li>- Build Volume: 33 x 24 x 30 cm (12.99 x 9.44 x 11.81 in.) <i>Left or Right Nozzle, or Dual Material</i></li> <li>- XY Positioning Precision: 6.9 microns</li> <li>- Z Positioning Precision: 2.5 microns</li> <li>- Supported Filament: Optimized for PLA, Tough PLA, Nylon, ABS, CPE, CPE+, PC, TPU 95A, PP, PVA, Breakaway</li> <li>- NFC system to automatically detect material type with official Ultimaker filament</li> <li>- Open filament system also allows printing of 3<sup>rd</sup> party filament</li> <li>- Layer Resolution: 0.4mm Print Core: 20-200 microns</li> <li>- Print Technology: FFF</li> <li>- Filament Diameter: 2.85 mm (.1122 in.)</li> </ul> <p><b><u>Temperature:</u></b></p> <ul style="list-style-type: none"> <li>- Operating Temperature: 15-32 C (60-90 F), 10-90% relative humidity (non-condensing)</li> <li>- Average Operation Noise: 50 dBA</li> <li>- Storage Temperature: 0-32 C (32-90 F)</li> </ul> <p><b><u>Connectivity:</u></b></p> <ul style="list-style-type: none"> <li>- Connectivity: WiFi, Ethernet, standalone via</li> </ul>					

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	USB-drive - Camera: Yes (view from desktop or app) <u><b>Software:</b></u> - Supported File Types: STL, OBJ, x3D, 3MF, BMP, GIF, JPG, PNG - Supported OS: Windows; Mac; Linux - Bundled Software: Ultimaker Cura Slicer, Cura Connect Print Management (download) <u><b>Support/Warranty:</b></u> - Includes: One-Year manufacturer's warranty					
2	Ultimaker 3 3D Printer. <u><b>Meeting the following specifications:</b></u> - Dimensions (including Bowden tube/filament spool holder): 49.3 x 33.8 x 58.8 cm (19.9 x 13.31 x 23.15 in.) - Filament (included): PLA 350g spool, PVA 350g spool - Spare Parts (included): 2 x AA print core; 1 x BB support material print core <u><b>Includes Accessories:</b></u> - Spool Holder - Filament Guide - Glass Buildplate - Glue Stick - Power Supply & Cable - USB Drive - Test Print - Grease (for z-screw lubrication) - Sewing Machine Oil (for Printhead rod lubrication) - Hex Screwdriver <u><b>Electrical:</b></u> - 24V DC @ 9.2amps - 100-240V / 4A / 50-60HZ / 221W max <u><b>Printing:</b></u> - Print Head: Dual nozzle with lifting mechanism on 2 <sup>nd</sup> nozzle easily swappable print cores (maximum 280C) - Extrusion Speed: Up to 16 mm <sup>3</sup> /s - Travel Speed: 30 – 300 mm/s - Build Platform: Heated glass bed, (maximum 100C) - Bed Leveling: Active - Nozzle Diameter: 0.4mm Print Core - Build Volume: <i>Left or Right Nozzle (single material):</i> 21.5 x 21.5 x 20 cm (8.46 x 8.46 x 7.87 in.). <i>Dual Material:</i> 19.7 x 21.5 x 20 cm (7.75 x 8.46 x 7.87 in.) - XY Positioning Precision: 12.5 microns - Z Positioning Precision: 2.5 microns - Supported Filament: PLA, PVA, ABS, CPE,	3	EA			

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	CPE+, Nylon, PC, PP - NFC system to automatically detect material type with official Ultimaker filament - Open filament system also allows printing of 3 <sup>rd</sup> party filament - Layer Resolution: 0.4mm Print Core: 20-200 microns - Print Technology: FFF - Filament Diameter: 2.85 mm (.1122 in.) <b><u>Temperature:</u></b> - Operating Temperature: 15-32 C (60-90 F), 10-90% relative humidity (non-condensing) - Average Operation Noise: 50 dBA - Storage Temperature: 0-32 C (32-90 F) <b><u>Connectivity:</u></b> - Connectivity: WiFi, Ethernet, standalone via USB-drive - Camera: Yes <b><u>Software:</u></b> - Supported File Types: STL, OBJ, 3MF - Supported OS: Windows; Mac; Linux - Bundled Software: Ultimaker Cura Slicer, Cura Connect Print Management (download) <b><u>Support/Warranty:</u></b> Includes: One-Year manufacturer's warranty					
3	Manufacturer/Educational Discounts (if applicable)	1	LOT			
4	Shipping and Handling	1	LOT			
	<b>TOTAL</b>					