



Student Technology Fee Committee (STFC) Annual Allocation Request

ALLOCATION REQUEST DATE INFORMATION

Date Created: 2025-02-04 11:34:42

Date Due: 2025-02-07 12:00:00

Date Submitted: 2025-02-04 11:44:35

ALLOCATION REQUEST TITLE/DESCRIPTION

Request Title: 2025 3D Printer

Request Description: The Prusa Mk3S in the library is a very popular printer for students to learn how to make 3D prints. However, it was purchased with STFC money in 2019 and is slow and has finally started to break down

ALLOCATION REQUEST INFORMATION

Department Name: Library

Request Code: 25A0476

Contact Names: Tim Bostelle

UW Tacoma Affiliation: Staff

UWT Email Address: tbostell@uw.edu

Phone Number: 2-4650

Title of Request: Upgrade the 3D printing in the Makerspace

Type of Request: One Time

Department Head Approval: Department Head: Megan Gregory

Annual Request Information

1. Background: Review and discuss the context of the proposed technology in detail. Explain how this proposal will be used in conjunction with an original proposal or existing technology. If applicable, how is the current technology disabled or inadequate?

The STFC committee funded the Prusa Mk3 in 2019 and it has given the students at UWT many many hours of hands on learning experience. But it is 5 years old, it has started to break down (the hot end broke) and it is very slow compared to newer 3D printers. We are asking the STFC to act now, while the Prusa is broken to spend money to completely upgrade the Prusa to a brand new Bambu Lab X1C 3D Printer Combo.

The Prusa hot end finally broke, spilling filament all over the heater block and making repairs impossible without replacement parts. The Library already ordered a new hot end to repair the current printer (\$95) but this printer needs to be semi-retired anyway since it is unbearably slow compared to modern printing systems. That's why we are asking now for a replacement Bambu Lab X1C 3D printer combo (X1C Combo includes the X1C and AMS - which includes the multi-color print addition).

2. Benefit to Students: Discuss how students have (for returning applicants) or will (for new applicants) benefit from this technology. How will additional funding of the technology benefit students?

The new Bambu Printer is more accurate, faster, has a climate control cover, has activated charcoal filters, and in the combo we are asking for can print 4-color projects with ease.

- Multi Color & Multi Material Capability (allows for multicolor prints and prints with dissolvable supports)
- Proven reliability trusted by professionals
- High quality printing with 7 µm Lidar Resolution
- High speed CoreXY with 20000 mm/s² Acceleration
- Dual Auto Bed Leveling
- Better accuracy
- faster prints
- climate control and filters allow for a variety of print materials

Buying this printer now will ensure that students have this printer immediately rather than next summer (which would be the turnaround for standard STFC). And would give students a major upgrade to the Makerspace 3D printing service.

The old Prusa printer will be repaired and will provide us with a 3rd printer. We are now finding that at least two printers are needed in order to cover the workload during busy times.

3. Access: Describe who will be using or will have access to the resources being proposed. In addition, all previous requestors, please provide historic data highlighting the usage and accessibility of technology. All new requestors, please provide user need data.

Only students can use the Bambu printer and the Prusa printers.

4. Timeline: Provide a timeline showing how the proposed technology can be completed during the requested period. Describe when you would like to see this proposal initiated and completed, and why.

Staff are fully trained on 3D printing. The timeline would literally be as soon as the money is released we could get this in the door and start using it.

5. Resources/Budget: Discuss available financial, personnel and space resources devoted to the proposed technology and level of support. Proposal must detail all the items/resources requested to be purchased. This includes filling out the Item Detail in next section.

The Library funds two full time staff members who manage the makerspace students and oversee all student safety and training.

Funding Request Items

| Item | QTY | Cost Per Item | Shipping Fee | Tax Per Item | Subtotal |
|--------------------------------|-----|---------------|--------------|--------------|------------|
| Bambu Lab X1C 3D Printer COMBO | 1 | \$1,450.00 | \$100.00 | \$160.00 | \$1,710.00 |
| OVERALL TOTAL: | | | | | \$1,710.00 |