Vermont State University

VermontState.edu

REQUEST FOR PROPOSALS
Randolph Manufacturing Equipment
Vermont State Colleges System d/b/a Vermont State University

ISSUED BY
Vermont State University

APPLICATION DEADLINE
July 30, 2026, 5:00 pm Eastern Time

APPLICATION INSTRUCTIONS
Email PDF versions of all documents to stephanie.nault@vermontstate.edu by the deadline, using the following naming convention:

- **Email Subject Line:** Randolph Manufacturing Equipment
- **Bid Form:** Randolph Manufacturing Equipment Bid Form

QUESTIONS REGARDING THE RFP
Questions regarding this RFP may be directed to Stephanie Nault **Stephanie.Nault@Vermontstate.edu**. For fastest response please enter Randolph Manufacturing Equipment ***RFP Question*** in the subject line of your message. All questions must be submitted by July 13, 2026, 4:00pm ET. Answers will be provided by July 17, 2026, 4:00pm ET, and will be available on www.vsc.edu/rfps.

SITE VISIT
The equipment will be available for pre bid viewing at 124 Admin Drive Randolph Center, VT 05061 on the dates specified below. Please call 1 (603) 856-4148 once you have arrived and we will assist you in the viewing. Please submit any questions in writing prior to the end of the Question and Answer period described above.

Site Visits for Review of Equipment	
Date	Time
June 24th	1:00pm to 3:00pm
June 25th	9:00am to 11:00am

Contents

VERMONT STATE COLLEGES SYSTEM OVERVIEW

The VSCS is currently undergoing a significant transformation, with the guidance of the Governor, Legislature, the Board of Trustees, and the State's Select Committee on the Future of Public Higher Education in Vermont. The VSCS began working on internal transformation in summer 2020 with the VSCS Forward Task Force and several institutional tasks forces including NVU Strong and VTC's Transformation Advisory Team.

The Vermont State Colleges System (VSCS) is comprised of two member institutions – Community College of Vermont (CCV) and Vermont State University (VTSU). The system educates over ten thousand Vermonters and non-Vermonters each year, employs over three thousand Vermonters, and in Spring 2020, graduated over eighteen hundred Vermonters and out-of-state students into the workforce with certificates and degrees.[1]

SCOPE OF SERVICES

The Vermont State Colleges System seeks interested parties to submit competitive bids to purchase the following equipment: 3D Printer, Downdraft Table with vacuum, and 3D metal printer.

Specific equipment information can be found after the Submission Requirements section of this RFP.

(Remainder of this page intentionally blank)

[1] VSCS Sourcebooks as well as Board & Committee Meeting Materials and Minutes are available on the System's website.

EVALUATION

The equipment will be awarded to the highest cash bidder, and must include the plan for removal of the equipment from VTSU's site in Randolph, Vermont. If the bidder is eligible for the transaction to be exempt from Vermont sales and use tax, the bidder must also provide a good faith exemption certification from the Vermont Department of Taxes. If the bidder does not provide a completed certification, the bidder must also expect to pay the sales and use tax if awarded the bid. The VSCS is liable to collect the tax unless the successful bidder is entitled to the exemption. For further information, bidders should visit https://tax.vermont.gov/business/sales-and-use-tax/exemptions#certificates

Method of Award

The Equipment will be awarded to the highest bid. The high bidders will be contacted by 5:00pm on August 5,2026. The high bidder will have two weeks to provide full payment with a completed W-9 and to remove the awarded item from Vermont State University property. If that deadline is missed, the award will be considered null and void and the next highest bidder will be contacted and awarded the item, with two weeks to provide payment and remove the equipment. The VSCS, in its best interests, reserves the right to accept or reject any or all proposals, to accept or reject any item or combination of items therein, to waive any irregularities or informalities in any proposal or items therein, and/or to negotiate with particular bidders following the evaluation of proposals without right of recourse by other bidders. A top proposal would be assessed in the judgment of VSCS as best complying with all considerations set forth in this RFP. When VSCS has tentatively selected a successful proposal, VSC may engage in discussions with the bidder to formulate plans in greater detail, to clarify unclear items for either party, and to otherwise complete negotiations prior to formal selection.

GENERAL CONDITIONS

1. This RFP does not commit the Vermont State Colleges System to award a contract.

2. This RFP and the process it describes are proprietary to the VSCS and are for the sole and exclusive benefit of the corporation. No other party, including any Applicant, is granted any rights hereunder. Any response, including written documents and verbal communication, by any Applicant to this RFP, shall become the property of the VSCS and may be subject to public disclosure as described in the Confidentiality section, below.

3. Submission of a bid indicates acceptance by the party of the conditions contained in this RFP, unless clearly and specifically noted in the proposal submitted and confirmed in the contract between Vermont State Colleges System and the chosen party selected.

4. Responses shall be binding upon the chosen party and irrevocable for up to 60 days following the close of applications.

5. From the release date of this request for proposal until award of the contract, no contact with Vermont State Colleges System personnel or board members related to this solicitation is permitted. Direct all communications to the designated contact on the first page of this request.

6. The Vermont State Colleges System reserves the right to:
    a. Request clarification and additional information from any party during the evaluation process.
    b. Re-advertise with either an identical or a revised scope of work or cancel requirements in their entirety.
    c. Issue subsequent RFPs based on refinement of concepts proposed in response to this request.
    d. Conduct investigations of the qualifications of the Applicant as deemed appropriate.
    e. Request the Applicant modify the submitted proposal to more fully meet the needs of the Vermont State Colleges System.
7. This RFP and any subsequent transfer of ownership or disputes relating thereto is governed by the laws of the State of Vermont.
8. All bids must recognize that equipment or property described herein is to be sold AS-IS, without warranties or representations, express or implied, regarding the condition, usefulness or suitability of the property.

CONFIDENTIALITY

The Vermont State Colleges System complies with the Vermont Public Records Act, 1 VSA § 315 *et seq*. which requires public agencies to allow any person to inspect or copy any public record upon request. Accordingly, applicants for this RFP are hereby advised that any communications, data or other information received by the Vermont State Colleges System during the RFP process could be subject to a public records request. However, certain public records are exempt from public inspection and copying, as set forth in 1 VSA § 317(c), including, for example, those portions of a record which meet the statutory definition of a trade secret. Accordingly, applicant must submit a second redacted copy of their proposal, if the applicant reasonably believes any portion of the proposal is exempt from disclosure under the Public Records Act. . **By submitting a proposal, you indicate that you understand the requirements of this section and the potential applicability of Vermont's Public Records Act to your proposal.**

SUBMISSION REQUIREMENTS

All submissions are due no later than July 30, 2026, 5:00 pm Eastern Time.

Please use the attached bid form when submitting a bid.

BID FORM

Equipment	Bid Price Submitted	Name of Party Submitting Bid	Phone Number	Email
Essentium HSE-280 3D Printer				
ExOne Binder Jet Model 25Pro				
DualDraw TB3048				
1 Bid for ALL ABOVE ITEMS				

(Remainder of this page intentionally blank)

Specification of equipment and proposed sale:

-DualDraw TB3048-WC Vented Back Wet Downdraft Booth for Combustible Metal Dust Capture:

- 4000CFM overall flow, 400 FPM capture velocity at work surface
- Meets NFPA 484 Standard for Combustible Metals
- 30” x 48” Wet Vented Back Downdraft Booth
- Direct Drive High Performance Plug Fan Blower with 7.5 H.P. 230/460V Three Phase 22.50/11.25A, 60Hz
- Optional 24/7 Vent Fan for Offline Positive Air Flow (for processing magnesium powder)

VAC-U-MAX 55MW Wet Downdraft Sump Vacuum

- Air Operated Sump
- 55 Gallon tank
- Capable of Ingesting at 60-120GPM

Essentium HSE™ 280i HT 3D Printing Platform Specifications

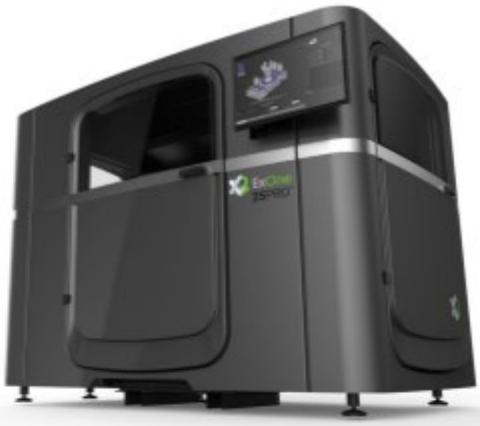
NUMBER OF PRINT HEADS	Two
NOZZLE	Gen 5 Hozzle™ Heated Nozzle
NOZZLE DIAMETER	0.4 mm and 0.8 mm
NOZZLE TEMPERATURE	550°C
PRINTER DIMENSIONS	1590 x 1350 x 2490 mm
NET WEIGHT	1000 kg
PRINT SPEED	500 mm/s
MOTION SYSTEM ACCURACY	0.081 mm XY and 0.005 mm Z
POSITION ACCURACY	0.25 mm
LAYER HEIGHT	0.1-0.55 mm
BUILD PLATE TEMPERATURE	up to 190°C
BUILD CHAMBER TEMPERATURE	up to 200°C
ELECTRICAL REQUIREMENTS	200-240 VAC
MAXIMUM POWER CONSUMPTION	9,000 W
HEAT LOAD AT HIGH TEMPERATURES	4,000 W
FILAMENT DIAMETER	1.75 mm
MULTI-MODAL HEATING	Yes

Essentium HSE 280i HT 3D Printing Platform Specifications

HOT SWAP READY	45 seconds	
MACHINE HEAT UP TIME	15-120 minutes	
SEALED CHAMBER	CE compliant, Flow rate >95 m^3/hr	
SPOOL STORAGE	Six DryAir canister slots	
SCRUBBER READY	Yes	
H OPTIMIZER ENABLED	Yes	
Z COMPENSATION	Yes	
COMPATIBLE MATERIALS	Open ecosystem to use any material	
SLICING SOFTWARE	Simplify3D	
OPERATOR MODES	Start Mode, Production Mode	
SUPPORT PRINTING	Water soluble, breakaway	
	Build Volume	**Throughput**
SINGLE HEAD PRINTING	695 x 495 x 600 mm	Up to 220 g/hr
MULTI-MATERIAL PRINTING	595 x 495 x 600 mm	Up to 200 g/hr
COPY MODE PRINTING	(395 x 495 x 600 mm) x2	Up to 440 g/hr
SUPPORT MODE	595 x 495 x 600 mm	Up to 200 g/hr
INDEPENDENT MODE	Coming Winter 2021	Coming Winter 2021

X1 25Pro®

A large, smart 3D printer for high-quality serial production of metal, ceramic or composite parts.



X1 25Pro® combines the fine metal injection molding ("MIM") powder capability of ExOne's Innovent+® machine with production volume capability. The new X1 25Pro® addresses the needs of MIM, powder metallurgy, and manufacturing customers seeking a larger platform solution for producing reliable parts in the production enviornment.

TECHNICAL SPECIFICATIONS

Build Box	Max. Build Rate	Layer Height	Build Volume	Print Resolution
400 x 250 x 250 mm (15.75 x 9.84 x 9.84 in)	3,600 cc/hr (220 in^3/hr)	30 to 200 µm	25 L (1,526 in^3)	>30 µm voxels
Min. Powder Size	**External Dimensions**	**Weight**	**Electrical Requirements**	**Binder Systems**
5 µm (d50)	2,300 x 1,800 x 2,300 mm (90.5 x 70.9 x 90.5 in)	2,000 kg (4,409 lbs)	208-240V 3-phase 50/60Hz	AquaFuse, Clean-Fuse, FluidFuse, PhenolFuse

* Print resolution is based on using a 10 picoliter printhead and 30 µm layer. Results may vary on system configuration and materials used.

SYSTEM BENEFITS

- Builds rock-solid metal parts at production speeds
- Industry-leading repeatability and green part density
- 3D prints metal, ceramic, sand, and composite powders
- Patented ultrasonic dispensing technology that enables the printing of MIM powders
- Exclusive powder spreading and compacting system that improves green part density
- Broadest, most diverse range of metal print materials: 316L, 17-4PH, 304L, Inconel 718, M2 and H11 Tool Steels, Copper, and more