



Beechwood Independent Schools



Gymnasium Indoor Video Display System

Due: June 15, 2026

A Technology Proposal created for Beechwood Independent Schools

SUBMITTED BY BLUUM USA, Inc

Kalen Harris, Account Executive

Phone Number: 859-494-3223

Email Address: kalen.harris@bluum.com



bluum™

June 12, 2026

Dear Ryan,

With the hyper-accelerated transition to technology-based education over the last year, educators are seeking deeper partnerships with solutions providers who can deliver more than a sale or a product. They are looking for a true partner who is vested in helping broaden access and improve learning outcomes. Bluum is that partner.

Selling technology is no longer enough. It must be accompanied by services, training, and support to empower educators and students to meet their goals. For nearly 40 years, Bluum has been a vital part of the education ecosystem. **Our vision: A future where everyone has access to a great education.**

The Bluum affiliate entities create one of the largest privately held education technology solutions providers in the U.S. We fill customer needs by providing services associated with distributors, dealers, resellers and system integrators. Bluum's comprehensive portfolio contains over 1 million products and services, many provided by industry-leading and niche manufacturers. Bluum primarily serves the education market, ranging from public pre-schools to colleges and universities, to private and charter schools and organizations. Bluum is the only technology solutions provider with a clear focus on a higher calling to spark the next generation of learning. Our market leadership position and reputation have earned numerous awards and accolades from our customers, vendors, and industry.

As a true partner, we commit to being with you every step of the way – from planning and design to purchasing, integration, and installation – and throughout the entire technology lifecycle, providing services like professional development, classroom management, and technology buyback. We help you derive the greatest benefits and maximize the overall value of your technology investments.

WHAT SETS BLUUM APART?

Our deep experience in understanding how technology is used to manage, teach, and learn helps us create differentiated solutions that are purpose-built to improve the learning landscape. Our clients benefit from:

- **Experience** – With technology and education in our DNA, our 900+ employees are committed to helping educators improve learning outcomes. Nearly 40 years of providing technology and services to educators and students have helped us master services requiring higher and more specialized skills at the level of experience unmatched by other companies.
- **Portfolio** – Bluum offers one of the largest and most comprehensive technology portfolios available – more than one million products from over 800 industry-leading manufacturers and service providers.
- **Scale & Agility** – We have made significant investments in our business to scale our customers' needs. This includes creating more exclusive and innovative solutions, increasing our coverage model across

North America, and improving our negotiating ability with vendors. All enable us to have more meaningful discussions with customers about how to solve their challenges.

- **Integration Capabilities** – Our pedigree contains deep technical knowledge and expert-level collaborative technology design and integration services. This gives us the ability to plan and execute on high-end, complex technology projects and offer integration services anywhere in the U.S.
- **Services** – Bluum provides a complete suite of education-specific services ranging from product screening and professional development to IT asset disposition (ITAD) and product lifecycle management.
- **Coverage** – Bluum has coverage in every state in the U.S. and a large portion of Canada. Our ed-tech experts live and work in the areas where our clients are located and are invested in the schools they serve.
- **Results** – Over 20 million students use Bluum-provided technology and solutions every day.

Bluum is proud to support transformative change in education. We are confident you will find we have the right mix of experience, expertise, product, and services to support your requirements effectively. If you need more information, please contact me directly at kalen.harris@bluum.com or 859-494-3223.

I look forward to the opportunity to partner with Beechwood Independent Schools to ensure student academic achievement and empower tomorrow's leaders.

Sincerely,

Kalen Harris

Account Executive

P: 859-494-3223

[Kalen.harris@bluum.com](mailto:kalen.harris@bluum.com)

Beechwood Independent Schools
54 Beechwood Road
Fort Mitchell, KY 41017



REQUEST FOR PROPOSAL (RFP)

Project Title: Gymnasium Indoor Video Display System

Issuing Organization: Beechwood Board of Education

Location: 50 Beechwood Rd, Fort Mitchell, KY 41017

RFP Issue Date: June 2, 2026

Proposal Submission Deadline: June 15, 2026

1. Purpose & Project Background

Beechwood High School is seeking comprehensive, competitive proposals from qualified audio-visual and digital display integration vendors to furnish, deliver, install, and commission an **Indoor LED Video Display System** in the main school gymnasium.

The school has received a baseline equipment-only specification profile. This RFP seeks a turnkey partner capable of providing equivalent or superior hardware while executing all necessary structural, electrical, and physical deployment tasks omitted by standard manufacturer configurations.

2. Scope of Work & Technical Specifications

Vendors must propose a complete solution matching or exceeding the following parameters:

A. Core Hardware Specifications

- **Display Type:** Indoor LED Video Display (Uncoated Modules).
- **Pixel Pitch:** Maximum 3.7mm line spacing.
- **Resolution/Matrix:** Minimum 540 lines high by 960 columns wide.
- **Color Profile:** Full RGB LED.
- **Dimensions:** Approximately 6' 8" H x 11' 10" W x 0' 6" D.
- **Spare Parts:** Must include a comprehensive diagnostic spare parts package (minimum 13 replacement modules).

B. System Control & Processing

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- **Video Processing:** Control processor supporting at least 1 video input up to 1080p (HD) signal size.
- **Control Workstation:** Configured dedicated laptop pre-loaded with all required operational software, licensing, and playback configurations.
- **Data Backbone:** 200 feet of 50 μ m Multimode, 6-fiber optic cable.

C. Required Integration & Installation Services

Unlike limited equipment warranties, the selected vendor must handle **all** aspects of physical deployment. Proposals must itemize and include:

- **Structural & Mechanical Engineering:** Provision of certified structural engineer drawings ensuring the gym wall/structure can support a minimum unpackaged weight of 460 lbs (600 lbs packaged).
- **Physical Mounting:** Furnishing and installing all attachment support systems, sub-structures, framing, or hoists required to mount the display safely.
- **Electrical Infrastructure:** Installation of all electrical distribution equipment, switchgear, dedicated clean circuits, breakers, and electrical disconnect panels matching a max system power draw of 2736 watts.
- **Cable Routing:** Providing and pulling low-voltage signal conduit and fiber optic lines from the gym control room to the display location.
- **Logistics:** Full responsibility for receiving, offloading, and safely unboxing freight delivery at the high school site.

D. Warranty, Training, & Support

- **Parts Warranty:** Minimum 5-year comprehensive parts coverage.
- **On-Site Labor:** Minimum 1-year dedicated on-site technical labor warranty.
- **Training:** Turnkey system commissioning, final system optimization, and a dedicated training seminar for high school staff/operators.

3. Proposal Submission Requirements

To be considered, vendors must submit a structured proposal containing:

1. **Company Overview:** Proof of experience in executing similar K-12 or athletic facility video board deployments.
2. **Technical Solution Fit:** Detailed data sheets of proposed LED modules and control software verifying alignment with the 3.7mm / 1080p requirements.
3. **Turnkey Project Timeline:** A clear deployment schedule detailing manufacturing lead times, delivery, structural preparation, electrical rough-in, and final commissioning.
4. **Itemized Financial Cost Breakdown:**
 - Display Hardware & Control System Cost
 - Freight, Shipping, & Offloading Logistics
 - Structural Engineering & Installation Labor
 - Electrical & Signal Data Infrastructure Setup
 - Extended Warranties & Training Services
 -

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4. Evaluation Criteria

Beechwood High School will evaluate all conforming proposals based on the following weighted criteria:

- **Technical Compliance (30%):** Does the proposed hardware meet or exceed the 3.7mm pixel density and dimensions?
- **Turnkey Capability (30%):** Completeness of the proposal in addressing structural, electrical, and architectural exclusions.
- **Total Cost of Ownership (25%):** Value provided across hardware, installation, and long-term warranty provisions.
- **Timeline & Execution Plan (15%):** Minimum disruption to gymnasium academic schedules and clear milestones.

5. Point of Contact & Inquiries

All questions regarding site dimensions, electrical walk-throughs, or technical clarifications must be submitted in writing to:

Ryan Booth

Beechwood High School

50 Beechwood Rd, Fort Mitchell, KY 41017

Email: ryan.booth@beechwood.kyschools.us



Bluum USA, Inc.
1771 Energy Park Drive
Suite 100
St Paul MN 55108
www.bluum.com

Quote

#417523

06/12/2026

Bill To

129395 Beechwood Independent Schools
50 BEECHWOOD RD
FT MITCHELL KY 41017

Ship To

Tim Lillard
Beechwood Independent School
50 Beechwood Rd
Fort Mitchell KY 41017

Memo:

Expires	Sales Rep	Contract	Terms
07/12/2026	1547 Kalen Harris		Net 30

Qty	Item	MFG	Price	Ext. Price
1	Integration Item LAPA163-GF LAPA 163IN AIO P1.8 1920X1080 INCLUDES WALL MOUNT SPKR WEBOS 4.0	LG	\$28,285.48	\$28,285.48
1	Integration Item Plenum armored cable with connectors	Bluum	\$882.35	\$882.35
1	Services - Integration Integration and Installation Services (Non-Union, Non Prevailing Wage; Normal Business Hours). Union and/or Prevailing Wage rate requirement will result in a change order to the client. Includes Standard 90 day Installation Warranty https://www.bluum.com/standard-service-warranty Electrical work included (SECO) At this time there is not a laptop priced out in the quote. If awarded this project, Bluum would be happy to partner with Beechwood and their IT Department to determine a laptop that would meet their specifications. At this time there is not a cost for a structural engineering drawing included in the quote. Bluum would be happy to partner with Beechwood and their facilities team to discuss further. Additional charges may apply for these items.		\$23,466.48	\$23,466.48

Pricing Disclaimer: All quoted pricing is based on current manufacturer MSRP and availability at the time of quotation. Bluum reserves the right to adjust pricing on open or pending orders in the event of manufacturer MSRP increases, tariff changes, supply chain disruptions, or other market conditions that result in a price increase from the manufacturer prior to shipment.

****Bluum provides professional development from former educators who are committed to providing world class instructional training. With the purchase of educational technology, we recommend including PD to ensure effective adoption. Ask about our getting started package, 3-hour remote and 6-hour onsite training.**



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Bloom USA, Inc.
1771 Energy Park Drive
Suite 100
St Paul MN 55108
www.bloom.com

Quote

#417523

06/12/2026

Subtotal	\$52,634.31
Tax Total	\$0.00
Shipping Cost	\$250.00
Total	\$52,884.31

Thank you,

Kalen Harris

E: Kalen.Harris@bloom.com

bloom.com

To accept this quotation, sign here : _____

Printed Name/Title/Date : _____

Shipping and Billing Address listed on quote are accurate : []Yes []No

This document is subject to the terms and conditions found here: www.bloom.com/terms-conditions. For quotes over \$25,000 a Purchase Order is required, please reference this quote number on your PO. If purchasing via credit card a 2.5% surcharge fee will apply. For questions please contact your Bloom Account Representative.

Please inspect product upon delivery. All claims for defective merchandise or errors in shipping must be made within five days after receipt of goods. Returns require an authorization number and must be made within 30 days. A minimum 25% restocking fee may apply with the exception of out of box failures and replacements under warranty.



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* All images in this datasheet are for illustrative purposes only and may differ from the actual product.
** Stand accessories differ by models, and need to be purchased separately.

LG LED All-in-One LAPA Series

All-in-One Direct View LED Display

1 All-in-One LED Screen

 Built-in Speaker

 Dedicated Accessories

 Easy Installation Quick Maintenance

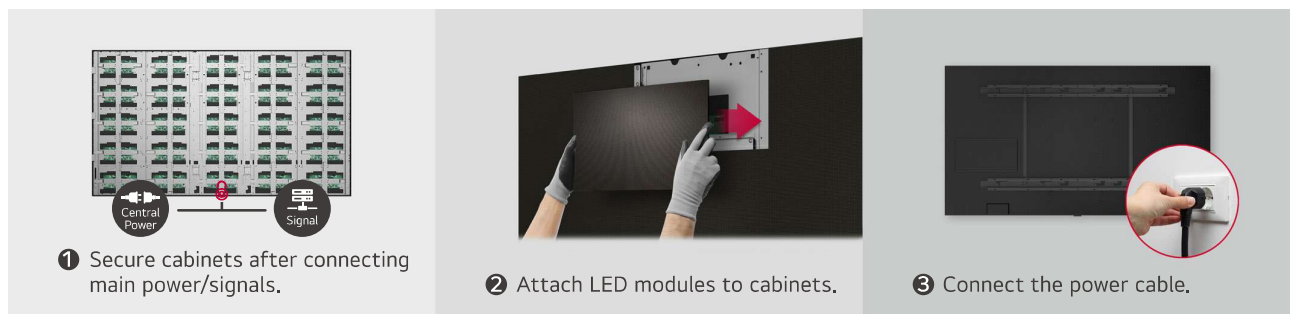
LAPA

Inch	163" / 136"
Pixel Pitch	1.88 mm / 1.56 mm
Brightness	500 nits (Max, after calibration)
Screen Resolution	1,920 × 1,080
Service access	Front
Speaker	Built-in
Controller	Embedded (webOS)



All-in-One LED Screen with Built-in Speaker

Experience the convenience of LG's LED All-in-One LAPA series, featuring stunning 163-inch and 136-inch screens. This all-in-one package includes an embedded controller and built-in speaker, making setup a breeze. Dispelling the notion that LED displays are difficult and complex to install, it requires no controller connections or module configuration.



* The image is illustrated as an example of LAPA136 model.

Easy Installation

The installation process for the LED All-in-One is straightforward. First, secure the cabinets (three for the LAPA series). Next, attach each LED display module to the cabinets, and finally, plug in the power cable. This simple installation saves time and labor, allowing users to easily manage the LED screen.



Simple Power Connection

The LAPA series operates with two standard AC power cords, simplifying power connections and ensuring a clean, tidy installation.



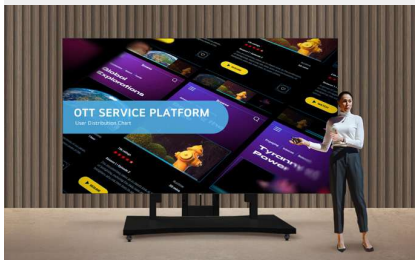
Quick Maintenance

Should the LED module or system board fail, front-access servicing makes repairs a breeze. The LED module can be swiftly detached with the included magnetic tool and replaced without any cabling hassle.

Landscape Wall Mount



Dedicated Stand



Multi-screen Setup



Versatile Installation Accessories

The LAPA series comes with all a necessary components including the landscape wall mount and tools for installation. For added convenience, a dedicated stand is available as an option, allowing you to easily position the screen based on your installation needs. Additionally, the LAPA series can be seamlessly arranged side-by-side in a 1 × N configuration, accommodating up to 10 screens to suit your specific installation site and purpose.

* Stand accessories vary by model and must be purchased separately at an additional cost.



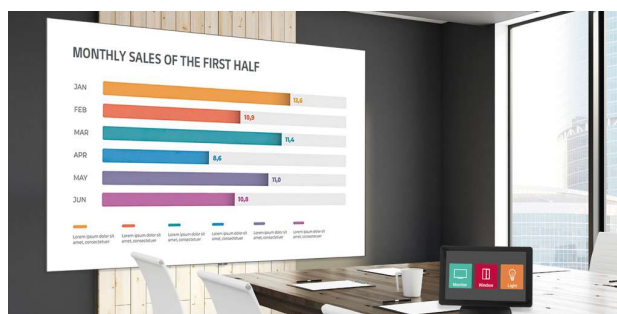
Real-time LG ConnectedCare

Streamline maintenance with LG's ConnectedCare service, a powerful cloud solution that remotely monitors display status, diagnoses faults, and offers remote control capabilities—helping clients' businesses run smoothly and efficiently.



High Performance SoC with webOS

Powerful performance is at your fingertips with the built-in Quad Core system on chip architecture, delivering seamless content playback without the need for a separate media player. The LG webOS smart signage platform offers an intuitive interface and streamlined app development tools. For partners, the webOS Signage Developer site provides comprehensive SDK tools and documentation to create custom apps (<https://webossignage.developer.lge.com>).



Compatible with AV Control Systems

The LAPA series supports Crestron Connected®* for high compatibility with professional AV controls to achieve virtually seamless integration and automated network-based control, boosting business management efficiency.

* Devices implementing the Crestron Connected® control platform need to be purchased separately at an additional cost.



Office Meeting Mode

With Office Meeting Mode, easily configure meeting room details to be displayed such as local time, meeting room number/name and other. It also includes convenient features like automatic input switching, presentation timer, and adjustable settings such as auto-brightness and picture mode.



Wireless Screen Sharing

The LAPA series is compatible with LG One:Quick Share*, a wireless screen sharing solution. This USB accessory allows you to easily share your personal PC screen to a display with just a button press and its built-in Wi-Fi. It also enables you to adjust basic settings of the connected display, such as volume, picture mode, and auto-brightness, without the need for a remote control.

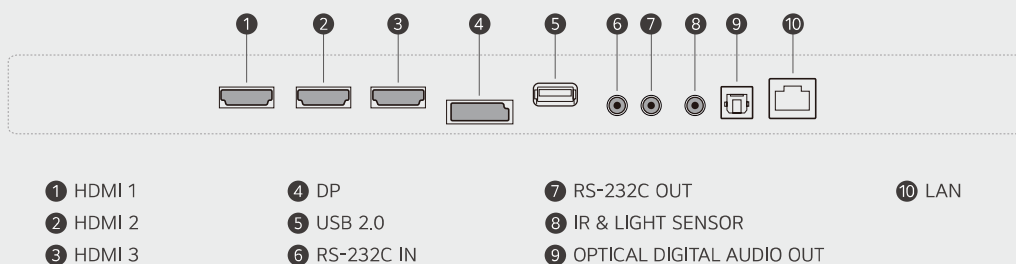
* LG One:Quick Share needs to be purchased separately.



Flame Spread Protection

The LAPA series has satisfied the standards for the BS476 Part7 Class 1 rating, confirming its compliance with flame spread standards.

CONNECTIVITY



SPECIFICATIONS

LAPA Series

		LAPA163-GF	LAPA136-GF
Physical Parameters	Pitch Name	P1.88	P1.56
	Pixel Configuration	Single SMD	Single SMD
	Pixel Pitch (mm)	1.88	1.56
	Module Resolution (W × H)	160 × 90	192 × 108
	Module Dimensions (W × H)	11.8 x 6.6 in. / 300 × 168.75 mm	11.8 x 6.6 in. / 300 × 168.75 mm
	No. of Modules per Screen (W × H)	12 × 12 (Total 144)	10 × 10 (Total 100)
	Screen Resolution (W × H)	1,920 × 1,080	1,920 × 1,080
	Screen Dimensions (W × H × D)	141.9 x 79.9 x 1.2 in. / 3,605 × 2,030 × 29.95 mm (Thickest 59.5)	118.3 x 66.6 x 2.2 in. / 3,005 × 1,692.5 × 56.3 mm 118.3 x 66.6 x 2.9 in. / 3,005 × 1,692.5 × 74.5 mm including wall mount
	Screen Surface Area	78.5 ft ² / 7.29 m ²	54.5 ft ² / 5.06 m ²
	Screen Weight	341.7 lbs. / 155 kg	239.2 lbs. / 108.5 kg
	Physical Pixel Density (pixels/m ²)	284,444	409,600
	Flatness of Cabinet (mm)	±0.15 (TBD)	±0.15
	Cabinet Material	Aluminum	Aluminum
	Service Access	Front	Front
Optical Specifications	Typical Brightness After Calibration (nits)	Up to 500	Up to 500
	Color Temperature (K)	3,200-9,300	3,200-9,300
	Visual Viewing Angle (H × V)	150° × 150°	150° × 150°
	Brightness Uniformity	98%	98%
	Color Uniformity	±0.015 Cx, Cy	±0.015 Cx, Cy
	Contrast Ratio	3,000:1	3,000:1
	Processing Depth (bit)	16	16
Electrical Specifications	Max Power Consumption (W)	2,000	1,300
	Avg. Power Consumption (W)	750	650
	Max Power Consumption (W/m ²)	275	260
	Max Heat Dissipation (BTU/h)	6,825	4,436
	Avg. Heat Dissipation (BTU/h)	2,560	2,218
	Max Heat Dissipation (BTU/h/m ²)	939	888
	Power Supply (Vac)	100 to 240	100 to 240
	Frame Rate (Hz)	50 / 60	50 / 60
	Refresh Rate (Hz)	3,840	3,840
Operation Specifications	Lifetime - Half Brightness (hours)	Up to 100,000	Up to 100,000
	Operating Temperature	32°F to 104°F / 0°C to +40°C	32°F to 104°F / 0°C to +40°C
	Operating Humidity	10-90% RH	10-90% RH
	IP Rating (Front / Rear)	IP30 / IP30	IP30 / IP30
Regulatory & Certifications	Certifications	CE, FCC, EMC Class A	
	Fire Protection	BS476 Part7 Class 1	
	Environmental	RoHS, REACH	
Warranty & Other	Warranty	3 Year Limited	
	Speaker	Built-in (9 W + 9 W)	
	Controller	Embedded (webOS)	
	Connectivity	HDMI (x3) with HDCP 2.2, DisplayPort with HDCP 2.2, USB, LAN, RS-232C In/Out, IR, Digital Audio Out (SPDIF Optical)	
	Wi-Fi / Bluetooth	Yes / No	
	Accessories.	IR Remote (In-box)	

Lifetime spec does not supersede the Limited 3 Year Warranty.

* Specifications are subject to change without notice. Please make sure to check the product manual for details about product usage.

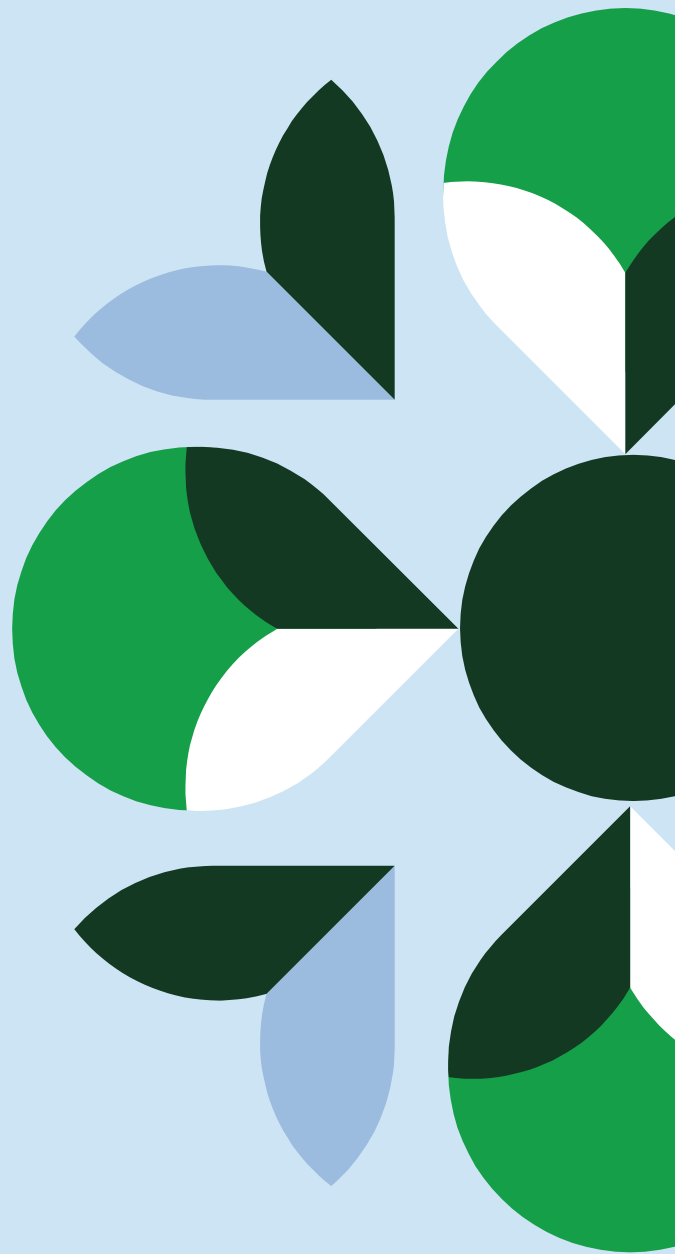


Cultivate Possibility

With the hyper-accelerated transition to technology-enabled learning, schools are seeking deeper partnerships with solutions providers that can deliver more than just product.

Bloom knows that transformative technologies in the right hands can help foster active learning and collaboration. Our solutions are designed to empower educators, not replace them. We make it easier for them to create individualized lesson plans and learning experiences that foster a sense of inclusivity and boost the learning capabilities of all students, regardless of age or ability.

The act of 'blooming' signals a moment of transformation when the right people, knowledge and resources come together to create something greater than the sum of its parts. We help districts and schools like yours cultivate possibility, so you can bloom where you are planted.



Our Mission

To bring people together
through exceptional
technology experiences.

bloom.com

Over 40 years of experience in the education sector has taught us that the right technology can broaden student access to learning and ease the burden on educators and students by creating effective learning environments in any setting.



You sow the ground for lifelong learning. Bloom helps you cultivate it.

Planning and Consultation

From consultation to design to integration, Bloom is with you at every step of the technology planning process. Why? It not only helps us design, build and support the solutions you need, but ensures they deliver results.

Integration and Installation

Our national network of experienced integrators and installers provide professional and reliable services, including complimentary site visits and system evaluations. From installing a single product to delivering a large-scale integration, our certified technicians design, build, integrate, test, install and calibrate solutions, then provide full-spectrum technical support that keeps everything running smoothly.

Integration & Installation

Understanding technology and how to use it enables teachers to improve their instruction methods and personalize learning. Many of our professional development team members are former educators who understand the real challenges of teaching with classroom technology. They've assisted more than 8000 teachers, 3,500 schools and received a 9.2 out of 10 average training satisfaction score.

Technical Support

Bloom's support team is your first line of defense in resolving your technical issues, no matter how complex. Our industry-certified technicians provide on-demand, priority support via phone, chat and email to troubleshoot and resolve technology challenges.

Value-Add Services

Bloom offers a complete suite of education-specific services including design, pre-deployment white glove support, warranty and damage protection, flexible and scalable financial programs, grant writing, IT asset disposition (ITAD), product lifecycle management, and postdeployment sales and technical support.

Single Solutions Provider

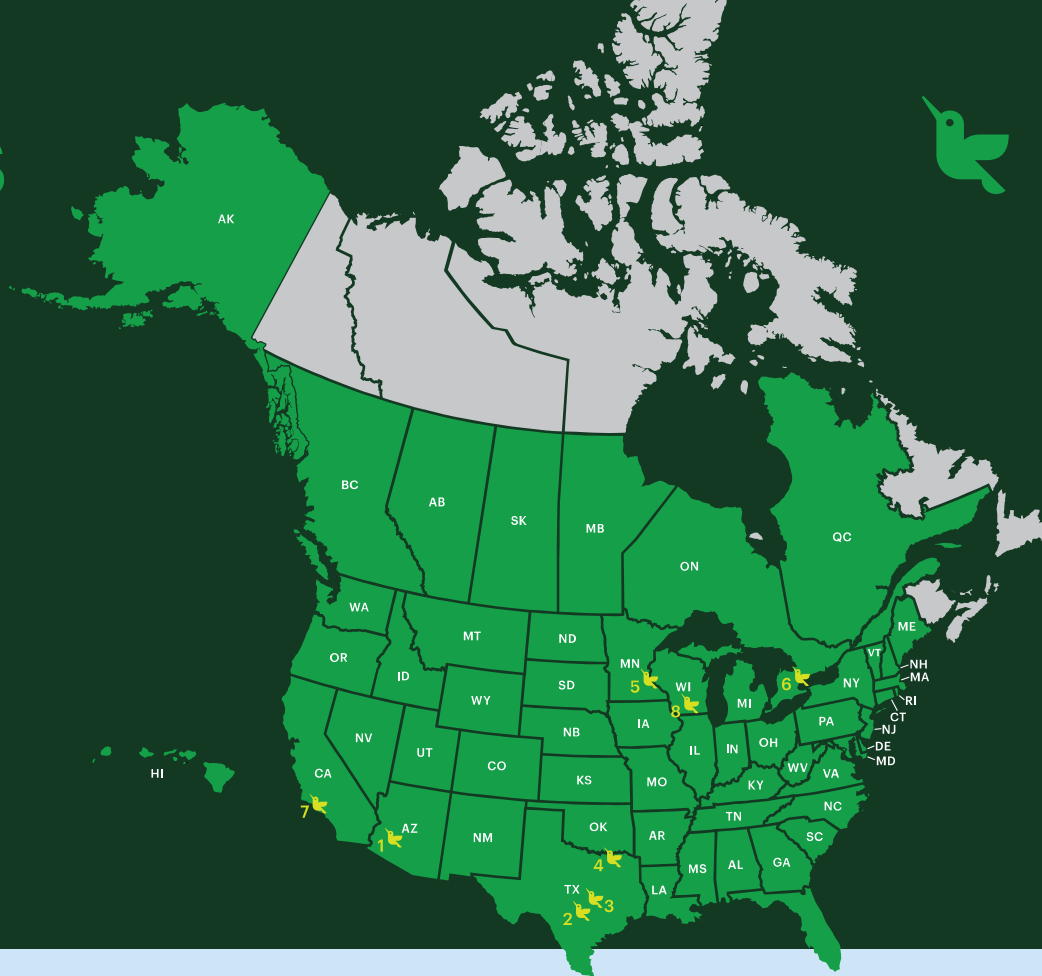
Bloom provides more brands, improved buying power, better support infrastructure, expanded services and better pricing to help maximize technology investments and improve purchasing efficiencies.

Our portfolio of products, solutions, and services is handpicked to ensure that you and your students grow and flourish. Educators love how well our technology solutions complement their curriculum, and students are more engaged than ever.

About Us

We can handle all your technology needs—whether designing a solution for a small huddle space, an immersive learning environment, or a large-scale systems integration project anywhere in North America.

1. Phoenix, AZ
2. San Antonio, TX
3. Austin, TX
4. Dallas, TX
5. St. Paul, MN
6. Markham, ON (CAN)
7. Los Angeles, CA
8. Madison, WI



By the Numbers

780+
Employees on
Team Bluum

40+
Years in
Business

3x
Revenue Growth
Since 2019

7.0M+
Products Sold
Annually

50
State
Coverage

10K+
Projects
Completed

Honors & Industry Recognition



AVIXA Certification
AV Provider of Excellence



No. 50 on Solutions
Provider 500 List (2021)
CRN Magazine



INC. 5000 Honoree – Fastest
Growing Company (2021)
Inc. Magazine



Fastest Growing
Company (2021)
Phoenix Business Journal



No. 10 Systems Integrator (2021)
Top 50 Systems Integrators List
Systems Contractor News



WINNER – Fast 50 Award
(2018)
Twin Cities Business Journal



No. 56 on Fast Growth 150 List
(2021)
CRN Magazine

WINNER – Best AV Company
(2016, 2017)
TCB Magazine

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Bluum (formerly Trox+Tierney) has been helping educators improve learning and make it more accessible for over 40 years.

With a solid understanding of how technology can be leveraged to enhance productivity, efficiency and engagement, our team can help you derive the greatest benefits from, and maximize the overall value of, your technology investments.

From consultation and purchase to installation and training, we work side-by-side with you to create modern learning environments that inspire learners and enable better learning outcomes. We are confident that we can provide the right mix of expertise, products and services to effectively support your needs, now and in the future.

If you need more information please contact us at 612-331-5500. If you need additional perspective on how we work with our customers, we'd be happy to provide references.

We look forward to partnering with you to spark the next generation of learning.

