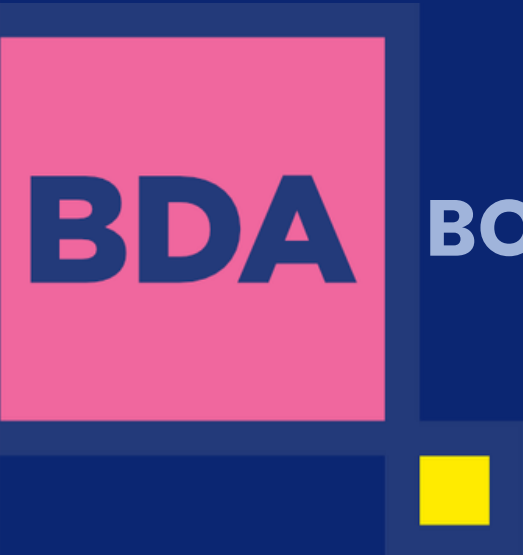




BDA

BOSTON DESIGN ACADEMY

"Our Design, Our Future"

2027

KEY DATES & INFORMATION

Scholar Arrival Dates:

- Weekend of July 2, 2027

Scholar Departure Date:

- Sunday, August 15, 2027

Areas of Instruction:

- Digital Sketching (3D Paint or Procreate)
- 3D Modeling (TinkerCAD & OnShape)
- Coding & Programming (Arduino)
- Website Design
- Unreal Editor for Fortnite

Program Location: Boston, MA, USA

Programs being Offered:

Open Laidlaw Positions: 10 Positions

- Assistant Instructors (9 positions)
- Marketing Support (1 position)

- Digital Design Intensive (DDI)
- Tech Your Health (TYH)
- Elavated Agriculture Technology (ETA)



Learn more!

www.timothysmithnetwork.com | www.instagram.com/tsnetwork

Timothy Smith Network

The logo for the Timothy Smith Network (TSN) features the letters "TSN" in a bold, blue, sans-serif font. The letters are contained within a blue square frame that has a small gap at the bottom right corner.

TIMOTHY SMITH NETWORK

When a wealthy merchant, Timothy Smith and his wife Mary Ellen both died in 1918 their final will and testament specified that the proceeds of their bequest be utilized to benefit the residents in Old Roxbury.

The Timothy Smith Fund was established on March 8, 1996 by Mayor Thomas M. Menino and the City of Boston to bring the benefits of computer technology to underserved communities. The Timothy Smith Network (TSN) continues to be committed to supporting the creation of an inclusive technology workforce by providing demographics that are underrepresented in technology with the tools necessary to compete for careers in 21st century tech-focused industries.

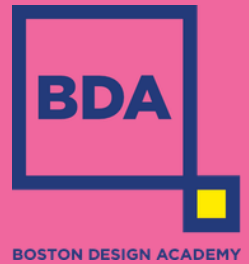
In 2018, TSN launched the Boston Design Academy (BDA) in partnership with the City of Boston, Microsoft, Boston Public Library, and Boston Public Schools (BPS) to provide BPS high school students with the opportunity to explore potential career pathways through project-based learning and collaborations with the institutions, companies and individuals that drive Boston's innovation ecosystem. Students are provided with supplies, tools, and training to enhance their understanding of applied science, technology, engineering, arts, and mathematics.

At TSN, we see technology as a tool that creates opportunities, inspires action, and changes lives, through BDA we are committed to developing socially aware and tech savvy students.

A DAY IN A LIFE OF A BDA SCHOLAR



PROGRAMS



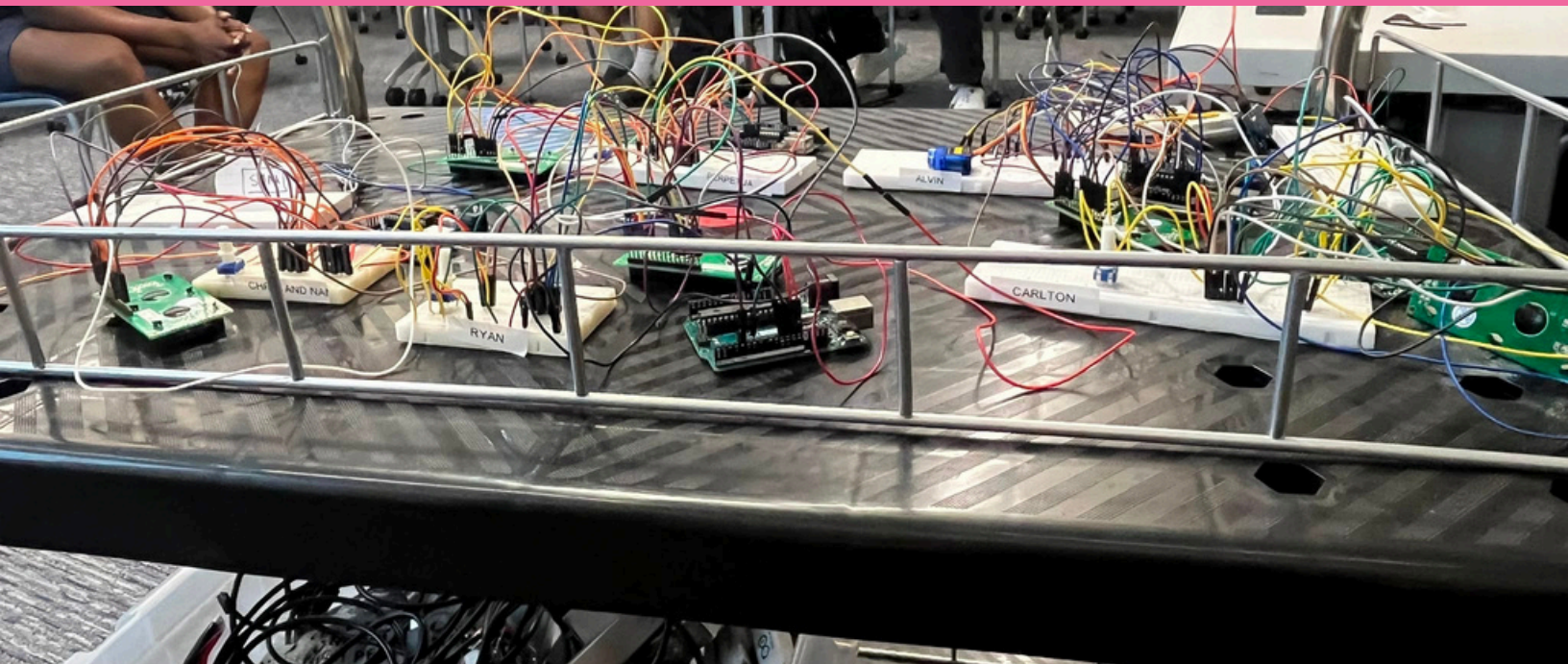
**ELEVATING
AGRICULTURAL
TECHNOLOGY (EAT)**



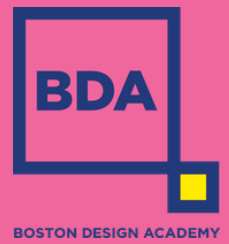
**DIGITAL DESIGN
INTENSIVE (DDI)**



**TECH YOUR
HEALTH (TYH)**



TECH YOUR HEALTH

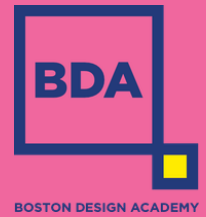


TECH YOUR HEALTH(TYH) students learned about the design and technical capacity of wearable fitness devices. TYH's robust curriculum is structured to give students background information regarding health and fitness technologies, teach product design concepts, interact with community organizations, engage professionals, and help guide students explore higher education and career paths.

TYH also exposed students to technology innovation occurring in their backyards which includes fields trips to technology companies, and labs in Boston are.



Tech Your Health (TYH)



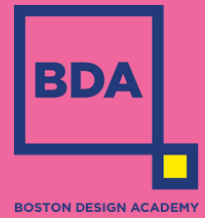
3 Laidlaw positions

Three Laidlaw scholars will be selected as Assistant Instructors, each scholar will lead an instruction module for a week.

- **Module 1** will cover an overview of the health economy, healthcare disparities, wellness practices, and indoor health technologies. This module will have interns develop various health technology prototypes with the help of the instruction team. Interns will research and select a problem within the health and wellness sector to solve.
- **Module 2** is Arduino. This will be an introduction to Arduino for most of the interns participating. Module 2's goal is for interns to build confidence in programming an Arduino device as Arduino will be a crucial part of their final program prototypes. Interns will begin to ideate the solution to their selected problem.
- **Module 3** will focus on 3D modeling, design, and printing. The Laidlaw instructor will be responsible for introducing and teaching interns how to utilize Tinkercad and OnShape as design platforms for their prototypes. Additionally, this instructor will lead the other scholars in printing interns' prototypes.

The ideal candidates are scholars majoring in mechanical, electrical, or computer engineering, industrial design, computer science, architecture, or with a passion and skill in coding and design.

Responsibilities



BDA Assistant Instructor is responsible for providing challenging project-based learning STEAM curriculum as follows:

1. Background - Health Challenges

- Review current health conditions within the local and surrounding communities.
- Assess most popular health and wellness technologies on the market.
- Work with interns to identify gaps in personal health upkeep.

2. Plan - Technology Design Concepts

- Assist lead instructor in teaching technology creative concepts relevant to TYH.
- Support interns with developing ideas for health and wellness technology design concepts.
- Help interns apply an iterative process to ensure requirements are met for finalizing their design.

3. Teach - Technology Tools and Application

- Guide interns on reviewing technologies they can use to support their design build.
- Introduce interns to TSN prescribed technologies for applications and uses in coding, electronics, and mechanical purposes. Technologies used are but not limited to Microsoft Suite, Arduino, OnShape, TinkerCAD, GitHub, and Visual Studio Code.
- Work with the lead instructor and interns in identifying questions for the guest speaker series.
- Help students develop and finalize a comprehensive STEAM product and presentation for the BDA Showcase.

4. Team Building and Networking

- Network with TSN staff, other scholars, and the interns to optimize the opportunities of supporting TSN.
- Participate in scholars' cultural experiences planned by the Program Support Scholar.
- Complete surveys relative to the TSN, TYH, and all speaking and field trip activities.
- Create 3 posts for the Laidlaw website regarding the experience during the 6 weeks of working with TSN on BDA

DIGITAL DESIGN INTENSIVE (DDI)



DIGITAL DESIGN INTENSIVE (DDI) is a project-based program to prepare students participating in digital and visual communications career to technology educational pathways. Participating students were exposed to digital and product design creation platforms during this three-module program including creating a personal brand and program portfolio website while learning social media graphic design, 3D modeling, and digital sketching. Students will be taught to utilize small business approved open-source platforms such as Wix, Canva, TinkerCAD, Paint 3D, and Google Sites.



Digital Design Intensive



3 Laidlaw positions

Three Laidlaw scholars will be selected for this program. Each scholar will lead weeks of instruction, with the other scholars and TSN Lead Instructor support. The DDI program is broken down into 3 modules.

- **Module 1** consists of Digital Sketching, creating a Fortnite Avatar with Paint 3D. The lead scholar will introduce the students to Paint 3D for digital sketching to create a self-portrait, a Fortnite Avatar and props that shows perspective, and 1-2 instructor chosen projects should time allow.
- **Module 2** consists of 3D modeling utilizing TinkerCAD and Fusion 3D. The lead scholar will introduce students to 3D modeling and video game design by introducing them to TinkerCAD to create 4 simple designs and then Fusion 3D as a platform to create more complex and detailed designs. Students will learn the basics of making 3D models and printing on a FormLabs printer. The module is completed after students create a Fortnite maps with Unreal Editor. Additionally, this instructor will lead the other scholars in printing students' prototypes.
- **Module 3** consists of students creating an interactive portfolio website using Wix or Google Sites. The lead scholar will be responsible for introducing students to website design using HTML/CSS and creating a portfolio website. Their website will be displayed during final presentations.

The ideal candidates are familiar with the below or similar software platforms and should be prepared to provide examples of any work created utilizing the above or similar platforms.

Responsibilities



BDA Assistant Instructor is responsible for providing challenging project-based learning STEAM curriculum as follows:

1. **Background – Creative Career Pathways**

- Review current career pathways that intersect with art and creative within the local and surrounding communities.
- Work with interns to explore ways in which their interests could leave to careers in the future.

2. **Plan – Personal Brand Concepts**

- Assist lead instructor in teaching technology creative concepts relevant to DDI.
- Support interns with developing a brand for their design concepts.
- Help interns apply an iterative process to ensure requirements are met for finalizing their digital portfolios.

3. **Teach - Technology Tools and Application**

- Guide interns on learning and reviewing technologies they can use to build their portfolios.
- Develop and teach BDA curriculum to include lesson plan/modules, student guides, assessments, reflection narratives, and framework for mid-term and final projects.
- Introduce interns to TSN prescribed technologies for applications and uses in digital sketching, video game design, and website design. Technologies used are but not limited to Microsoft Suite, TinkerCAD, Fusion360, Unreal Editor for Fortnite, Paint 3D, and Visual Studio Code.
- Work with the lead instructor and interns in identifying questions for the guest speaker series.
- Help students develop and finalize a comprehensive digital portfolio and presentation for the BDA Showcase.

4. **Team Building and Networking**

- Network with TSN staff, other scholars, and the interns to optimize the opportunities of supporting TSN.
- Participate in scholars' cultural experiences planned by the Program Support Scholar.
- Complete surveys relative to the TSN, DDI, and all speaking and field trip activities.
- Create 3 posts for the Laidlaw website regarding the experience during the 6 weeks of working with TSN on BDA.

ELEVATING AGRICULTURAL TECHNOLOGY (EAT)



ELEVATING AGRICULTURAL TECHNOLOGY (EAT) utilizes a program strategy to combine social challenges in tech education and food management to deal with some of the essential needs within underrepresented communities. The Timothy Smith Network wants students to innovate smart technologies specific to urban agriculture gardening in tandem with growing their own gardens. This dual approach of learning distinguishes EAT from other urban agriculture community and local gardening activities and programs. Students focused on product design and development to elevate and create indoor gardening technologies that incorporate lighting, water, and/or pest control.



Elevating Agricultural Technology (EAT)



3 Laidlaw positions

Three Laidlaw Scholars will be selected to serve as Assistant Instructors for the EAT summer program. Each Scholar will take the lead on an instructional module for approximately one week, with support from the other Scholars and the EAT Lead Instructor. Together, the team will provide students with hands-on learning experiences that connect urban agriculture, technology, coding, and product design.

- **Module 1** Food Insecurity & Indoor Gardening

Led by the TSN EAT Lead Instructor, this module will introduce students to food insecurity, food deserts, and the role of indoor and urban gardening. Students will begin their growing experience by planting and caring for a variety of seeds.

- **Module 2** Micro:bit & Introduction to Coding

The Laidlaw Assistant Instructor will introduce students to coding through Micro:bit. Students will complete a series of hands-on activities designed to progressively build their coding knowledge, confidence, and problem-solving skills.

- **Module 3** Arduino & Physical Computing

Students will be introduced to Arduino and learn the fundamentals of programming and controlling electronic devices. The Assistant Instructor will help students develop the skills necessary to incorporate Arduino technology into their final EAT prototypes.

- **Module 4** 3D Design, Modeling & Printing

The Laidlaw Assistant Instructor will introduce students to digital design and 3D modeling using Tinkercad and Fusion 360. Students will design components for their EAT prototypes, while the Scholar team will support the preparation and 3D printing of final designs.

Through these modules, Laidlaw Scholars will gain practical experience in teaching, mentoring, technology instruction, project management, and youth engagement, while helping students develop innovative solutions for urban agriculture.

Ideal candidates should:

- Have experience or interest in coding, Micro:bit, Arduino, 3D modeling, 3D printing, or product design.
- Be comfortable learning new technologies and then teaching those concepts to youth.
- Enjoy working with middle and/or high school students in a hands-on learning environment.
- Demonstrate strong communication, leadership, and mentoring skills.
- Be patient and able to explain technical concepts in an accessible and engaging way.
- Be creative problem-solvers who can help students move from an idea to a working prototype.
- Work effectively as part of an instructional team.
- Have an interest in urban agriculture, food insecurity, sustainability, and community-based technology solutions.
- Be dependable, organized, and prepared to lead instructional activities.
- Be enthusiastic about helping young people build confidence in STEM and see themselves as designers, engineers, makers, and innovators.



Marketing and Communications Support



1 Laidlaw position

The Timothy Smith Network (TSN) seeks a Marketing and Communications Scholar to work with TSN's Program Director and Office Administrator to strengthen the BDA programs marketing, communications, and community engagement efforts.

The Scholar will help develop content that highlights TSN's Science, Technology, Engineering, Arts, and Math (STEAM) programs, with particular emphasis on the Boston Design Academy (BDA). The position will provide hands-on experience in nonprofit marketing, digital communications, storytelling, branding, and outreach while helping TSN increase awareness of its programs, partnerships, and impact.



Responsibilities



1. Marketing and Content Development

- Develop engaging content to promote TSN programs, events, student accomplishments, partnerships, and community impact.
- Assist with creating social media content, program announcements, flyers, newsletters, and other promotional materials.
- Capture and develop stories highlighting BDA interns and scholars, instructors, guest speakers, field trips, and project-based learning experiences.
- Help identify opportunities to strengthen TSN's visual branding and promotional materials.

2. Digital and Community Engagement

- Assist with maintaining and organizing content for TSN's digital communications platforms.
- Support outreach campaigns designed to increase awareness and participation in TSN programs.
- Work with TSN staff to develop communications for students, families, community organizations, educational partners, and other stakeholders.
- Help promote program milestones, special events, field trips, guest speakers, and the BDA Final Showcase.

3. Storytelling and Program Impact

- Collect participant stories, quotes, photos, project highlights, and other content that demonstrates the impact of TSN programming.
- Assist with developing short profiles and impact stories featuring students, alumni, partners, and program activities.
- Review participant surveys and program data to identify stories and outcomes that can be incorporated into marketing materials.
- Help document BDA activities throughout the summer to support future recruitment, fundraising, partnership development, and organizational communications.

3. Marketing Research and Administrative Support

- Research marketing trends and communications strategies relevant to youth development, STEAM education, nonprofits, and community-based organizations.
- Assist in organizing TSN's marketing assets, including photography, graphics, testimonials, program descriptions, and outreach materials.
- Support communication and promotional needs for meetings, events, and stakeholder engagement.
- Perform other marketing and communications responsibilities that support TSN's mission and programming. communications.

What Your Impact Looks Like



HOW TO APPLY

BDA

Fill out the application at:
[https://forms.office.com/r/hdaQXvHArk?
origin=IprLink](https://forms.office.com/r/hdaQXvHArk?origin=IprLink)



**IF YOU HAVE ANY QUESTIONS EMAIL
ALIA ABDUL-JABBAAR
AT
AIABDULJABBAAR@TIMOTHYSMITHNETWORK.ORG**

