

STUDENTS FEEL MORE ENGAGED THAN IN THE CLASSROOM.

WHO WE ARE

Learning Undefeated builds **STEM** experiences that are shaping the next generation of innovators. Using the country's **largest fleet of mobile STEM education laboratories,** our career connected pathways and custom designed tech experiences equip K-16 students with the skills and confidence to thrive in tomorrow's STEM careers.

Reaching over **200K STUDENTS EACH YEAR**, Learning Undefeated's programming is scaffolded to build vital skills and empower students to understand that there is a place for them in the STEM workforce.



LEARNING UNDEFEATED SUCCESS METRICS

On the road or in the classroom, our programs are uplifting student skills & confidence, building teacher capacity, and shaping how students think about their futures.



BOOSTING TEACHER CAPACITY®



of teachers report more confidence teaching STEM activities in the classroom

1in3

teachers have greater confidence creating new STEM content for students ON PARTNERSHIP WITH LEARNING UNDEFEATED

"WE BELIEVE THAT EQUITABLE ACCESS TO STEM EDUCATION IS AN ESSENTIAL BUILDING BLOCK TO BRIDGING THE DIGITAL DIVIDE AND EMPOWERING YOUNG PEOPLE TO SEE THEMSELVES IN THE TECH FIELD, AS INNOVATORS, CREATORS AND PROBLEM-SOLVERS."

-PAIGE RODGERS
DIRECTOR, EQUINIX FOUNDATION

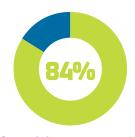
TRAINING CONFIDENT BIOTECH LEADERS*

4X

increase in student awareness of biotechnology careers



of participants are more confident in performing complex laboratory & research tasks



of participants are more confident in planning coursework to reach career goals

Source: 2023/24 Texas Mobile STEM Lab teacher evaluations
 *Source: Emerging Leaders in STEM 2024 student evaluation
 + Manufacture your Path 2025 student surveys



OF STUDENTS WANT TO LEARN MORE ABOUT MANUFACTURING CONTENT

2 Million STUDENTS (& COUNTING)

IMPACT24-25 / 5 /

2024-25 IMPACTS

THROUGH IN-SCHOOL PROGRAMMING AND COMMUNITY-LED PARTNERSHIPS,
LEARNING UNDEFEATED IS MAKING A DIFFERENCE ACROSS THE COUNTRY!

COMMUNITY-LED PARTNERSHIPS LOCALIZE STEM OPPORTUNITIES

ALABAMA

Southeastern Center for Robotics Education at Auburn University Mobile laboratory program design

ARIZONA

University of Arizona College of Medicine Wonder on Wheels mobile lab Customized curriculum to blend indigenous medicine with Western science

COLORADO, HAWAII & INDIANA

Purdue University TRAILS Program
Placed-based curriculum focused on
local careers

KENTUCKY

Rural Up! STEM Explorer Camp & Cyber Arcade Camp Career-connected learning for Appalachian youth

KENTUCKY
103 students
37 schools

MAINE

Educate Maine BIOLAB
Maine-centered education that
introduces students to bioscience careers

MICHIGAN

Kalamazoo RESA Mobile Discovery Lab Awareness & exploration of technical career fields for 39 schools in southern Michigan

MAINE

4,899 students

23 schools 94 teachers

MINNESOTA

3M

Advanced manufacturing kits and training for employee engagement

NEW JERSEY

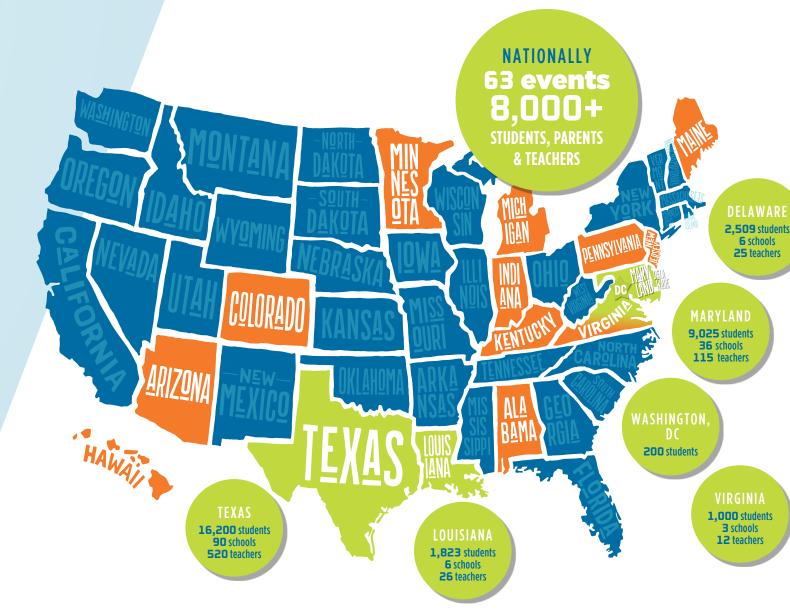
Roselle Public Schools Mobile laboratory design collaboration

PENNSYLVANIA

Temple UniversityMobile laboratory design collaboration

VIRGINIA

Virginia Commonwealth UniversityMobile laboratory design collaboration



/6/

OUR CURRICULUM

STEM LEARNING IN ACTION FOR ALL AGES

Learning Undefeated's comprehensive K-16 program suite offers hands-on learning at all ages. Our curriculum builds STEM literacy among elementary school students and teaches advanced laboratory & computational skills needed for tomorrow's workforce.



GRADES K-8: ENGINEERING DESIGN CHALLENGES Cross-disciplinary framework introduces teachers and students to principles of engineering design through hands-on experimentation.

GRADES 4-8: MISSION TO MARS Embarking on 360-degree video journey through the solar system, students land on Mars where they design and navigate their own rovers using custom tablet gameplay.





9 OUT OF 10
TEACHERS WERE MORE CONFIDENT
TEACHING ENGINEERING IN
THEIR CLASSROOM





GRADES 6-8: BODY SYSTEMS

Learners apply computational thinking and analyze health data in a cardiovascular-themed team game environment.







GRADES 9-12: MANUFACTURING MISSION

Teams race to manage schedules, inventory and more in a high-energy manufacturing challenge.

GRADES 10–16: EMERGING LEADERS IN STEM

A fast-paced, accelerated 40-hour course that trains high school and college students on advanced biotechnology topics and lab skills.



GRADES 7–12: ENVIRONMENTAL MISSION

Students tackle environmental challenges and explore maritime careers through gameplay, balancing time, budget, wildlife protection, and pollution factors.

3 OUT OF 4 GAINED SELF-CONFIDENCE ABOUT STEM TOPICS

GRADES 6-12: HANDS-ON EXPERIMENTS Mobile STEM labs travel right to the school's doorstep.

70+ free lessons on topics ranging from genetics and chemistry to AI, computational thinking, and cybersecurity.

/8/ IMPACT 24-25 / 9 / OUR CROSS-FUNCTIONAL DESIGN TEAM INCLUDES EDUCATORS, TECHNICAL EXPERTS, ENGINEERS, CODERS, AND MARKETING AND BRANDING FOR OUR MOBILE LABS.





BEHIND THE SCENES

Since 2022, our team has been pushing boundaries in educational game design, transforming ideas into immersive learning experiences that students won't soon forget.

From our first-generation **Breakout Box** modules (Body Systems and Environmental Missions) to the BB2.0 Manufacturing Challenge, we are building game-based learning environments that encourage teamwork, strategy, and critical thinking while teaching practical real-world skills related to industry.

In 2024, we opened a two-bay workshop outside of Fort Worth, Texas to house our mobile laboratory build facility. The new **Learning Undefeated Customs** facility gives our team a place to design, iterate and test new ideas before sending them on the road. With 100+ years of mobile laboratory expertise on the team, who knows what we'll build next?





"Our new workshop is more than a production space it's a playground for innovation. Here, we prototype cutting-edge designs, test new ideas, and bring immersive learning experiences to life before hitting the road."

> -JENNIFER COLVIN CHIEF INNOVATION OFFICER LEARNING UNDEFEATED







/ 10 /



"This was an incredible experience for our students, allowing them to engage in real-world learning with topics. Opportunities like this help inspire our students to explore future careers in technology and innovation."

-PRINCIPAL DAVID SHAFFER
RIVER BEND MIDDLE SCHOOL | VIRGINIA

"It was just fun. And I also want to be a scientist when I grow up!"

-FIRST GRADER EASTON MCDONALD CAMDEN-CORRIGAN ELEMENTARY SCHOOL | TEXAS

"This program [BioPath] is a bridge for students to connect what they're learning in the classroom with the career opportunities that exist outside of it."

-LILIANA RODRIGUEZ MAGNET COORDINATOR SAM HOUSTON HIGH SCHOOL | TEXAS

AWARD WINNING PROGRAMMING

Year after year, our programs are recognized by educators and industry for excellence in innovation. Read more about our awards at **learningundefeated.org/awards**













AWARD SPOTLIGHT

GRAND PRIZE
CORPORATE/NONPROFIT
PARTNERSHIP OF THE YEAR

For sparking interest in STEM careers and raising awareness about the environmental stewardship story of the Port of Corpus Christi.

"IGNITING INTEREST IN STEM AND MARITIME JOBS ACROSS THE COASTAL BEND, THE PORT-ABLE LEARNING LAB IS REINFORCING OUR EFFORTS AT THE PORT OF CORPUS CHRISTI TO CULTIVATE THE WORKFORCE OF THE FUTURE."

-ROSAURA BAILEY
DIRECTOR OF COMMUNITY RELATIONS
FOR THE PORT OF CORPUS CHRISTI





560 FT² EXPANDABLE POD

GRADES 6-12

30 STUDENTS



TX MOBILE STEM LABS

560 FT² FOOT EXPANDABLE POD

GRADES K-8



DROP ANYWHERE LABS



EXPLORER LAB

20 STUDENTS

2018

MISSION TO MARS



MXLAB

HANDS-ON EXPERIMENTS



MDBIOLAB



HANDS-ON EXPERIMENTS

387 FT² TRAILER

GRADES 6-12

32 STUDENTS

2003

HANDS-ON BIOSCIENCE & CHEMISTRY. DISASTER RECOVERY

ONE OF A KIND

MID-ATLANTIC (MD. DC. VA)

THE FIRST LAB IN OUR FLEET, NOW IN ITS 23RD SCHOOL YEAR AND STILL ROLLING!



TECH-BASED LEARNING



HANDS-ON EXPERIMENTS



TECH-BASED LEARNING

176 FT² SHIPPING CONTAINER

GRADES K-12

14 STUDENTS

2019

TECH-BASED LEARNING

387 FT² MOTORCOACH BUS 1.000 FT² DOUBLE EXPANDABLE

GRADES 4-8

42 STUDENTS

GRADES K-16

2017

70+ ACTIVITIES INCLUDING BIOSCIENCE, CHEMISTRY, PHYSICS, ENGINEERING. COMPUTATIONAL SCIENCE. CYBERSECURITY, AND AI

ONE OF A KIND

MD BASED, TRAVELS NATIONALLY

APPROXIMATELY THE SIZE OF A PICKLEBALL COURT

LAUNCH DATE

CONTENT

SIZE

SERVES

CAPACITY

2025

DESIGN CHALLENGES

BREAKOUT BOX BODY SYSTEMS MISSION + **ENVIRONMENTAL MISSION:** CHEMICAL & PHYSICAL CHANGES; AGRICULTURE

THREE

MID-ATLANTIC (MD, DC, VA)

ONE OF A KIND

HAS BEEN TO THE **SUPER BOWL!**

FOCUS

IN FLEET

FOOTPRINT

ONE OF A KIND

BREAKOUT BOX

MANUFACTURING CHALLENGE

NATIONAL

TEXAS STATEWIDE

AVERAGE SIZE OF A ONE-BEDROOM **APARTMENT**

TRAVELED NEARLY 5.000 MILES BY BOAT AND TRUCK FROM THE **FUN FACT NETHERLANDS TO REACH THE US!** **24 STUDENTS** 2020 + 2025

16 ENGINEERING

NINE

NATIONAL

OUR PORT-ABLE LEARNING LAB IS ALSO A DROP ANYWHERE LAB

IMPACT 24-25 / 15 / / 14 /

TEXAS STEM LABS

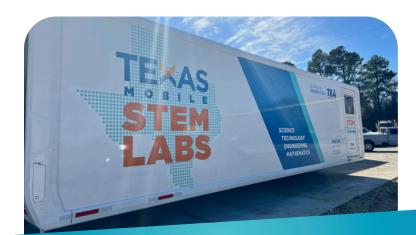
IMPACT X 8

TEXAS MOBILE STEM LABS PROGRAM EXPANDS BY 800%

Thanks to \$7M in grants from the Texas Education Agency, Learning Undefeated is building eight new Texas Mobile STEM Labs! Two brand new labs began serving schools in March 2025, with six more set to begin service for the 2025/26 school year.

Launched in 2020, teacher requests for the Texas Mobile STEM Lab have grown steadily each year exceeding demand every year by hundreds of available school visits. This Texas-sized program will serve 270 schools and 60,000 students next year, bringing K-8 engineering design challenges right to the school parking lot.









NINE LABS WILL EACH SERVE A DEDICATED REGION FOR THE 2025/26 SCHOOL YEAR.

TEXAS MOBILE STEM LAB: **BOOSTING TEACHER CAPACITY***

teachers trained on new content and skills



of teachers report more confidence teaching STEM activities in the classroom

ENGAGING 60,000 STUDENTS PER YEAR







BUILDING THE FUTURE BIOTECH WORKFORCE

NEW PARTNERSHIP WITH THE WORLD'S LARGEST MEDICAL CENTER PUTS STUDENTS ON THE PATH TO BIOTECH CAREERS

A transformative collaboration is equipping Houston students with the skills to thrive in the booming biomanufacturing sector. In partnership with the Texas Medical Center, Learning Undefeated transformed the Mobile eXploration Lab into a bioprocessing clean room so that students could learn aseptic technique and the importance of sterility in the biomanufacturing process.

Our educators custom developed two new science activities to explore how biomanufacturing transforms industries like medicine, advanced manufacturing, and biotechnology.





Houston high school students

trained at 4 high schools

1in3

SIGNED UP FOR A DEEPER ENGAGEMENT BIOMANUFACTURING PROGRAM

TOPICS INCLUDE

aseptic technique, protein purification





INTRODUCING

YOUR PATI

Launched in January 2025, Manufacture Your Path engages high school students in hands-on manufacturing curriculum to generate excitement, highlight in-demand careers and skills, dispel misconceptions, and introduce manufacturing-related topics. Anchored by a first-of-its-kind manufacturing Breakout Box mission, the program features curriculum kits, teacher training, and MFG Nights for families to explore local career opportunities.

SEE WHAT OUR STUDENTS HAVE TO SA



2025 SCHOOL YEAR STATS

75%

of Breakout Box participants are more interested in manufacturing careers

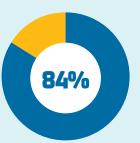
64%

of students want to learn more about manufacturing content

HIGH SCHOOL VISITS

4,800+

STUDENT PARTICIPANTS TO DATE



of students said the Breakout Box experience made manufacturing fun

150+ TEACHERS TRAINED ON CLASSROOM CURRICULUM

WE ARE GRATEFUL TO OUR FOUNDING PARTNER FOR THEIR SUPPORT!

CATERPILLAR FOUNDATION CATERPILLAR





SPOTLIGHT >> MXLAB PARTNERS WITH MARYLAND SCHOOL FOR THE BLIND

A new reading-focused STEM program for Baltimore City elementary school students blends STEM and literacy. Serving ten city schools this year, including the Maryland School for the Blind, our new curriculum was adapted to meet the needs of students with low vision, enabling all students to engage fully with the science projects.

- > Storybooks read aloud, and provided in both print and braille
- > Lab activities adapted to focus on tactile and strong visual elements
- > Tactile surfaces that can be touched, felt, and easily stuck together





SPOTLIGHT >> EDUCATE MAINE COLLABORATION: MAINE LIFE SCIENCE MOBILE LAB FOR GRADES 6-8

Launched in March 2024, the Educate Maine BIOLAB brings life sciences career exploration to rural Maine students.



"WE GENUINELY COULDN'T HAVE LAUNCHED THIS PROJECT WITHOUT LEARNING UNDEFEATED. FROM THE VERY BEGINNING, THEY HELPED US THINK THROUGH WHAT WE WANTED TO ACCOMPLISH ... AND THEN HELD OUR HANDS EVERY STEP OF THE WAY AS THE LAB WAS BEING DESIGNED, BUILT, DELIVERED, AND LAUNCHED."

-KATE HOWELL, DIRECTOR, WORKFORCE PARTNERSHIPS, EDUCATE MAINE

CRACKING THE INVISIBLE: STUDENTS USE NEW RADAR ACTIVITY TO 'SEE' THE UNSEEN

New for the 2024/25 school year! RADAR lets students explore wave properties through real-world radar applications. Students identify unseen objects by measuring distances with sensors and analyze simulated data to track an object's movement, speed, and direction.

By connecting these concepts to real-world challenges, RADAR highlights the importance of modern technology while deepening students' understanding of physics and engineering principles.





EMERGING LEADERS **EXPANDS NATIONALLY**

Thanks to a multi-year partnership with the Department of Defense, Learning Undefeated's highly successful Emerging Leaders in Biotechnology program will expand into national markets in Ohio, North Carolina, and Texas over two years.

Emerging Leaders in Biotechnology was purposedesigned in 2020 to explore high-growth military and civilian career areas in biotechnology. The three-month intensive hybrid course develops internship—and apprenticeship-ready future employees, aligned with DOD priority growth areas and equipped with advanced biotech skills typically learned in college courses.

"THE PROGRAM WAS INCREDIBLE THE BEST AND GROW BOTH PROFESSIONALLY AND PERSONALLY."

-AARYA YADAV, EMERGING LEADERS IN **BIOTECHNOLOGY PARTICIPANT**







EMERGING LEADERS IN STEM SUCCESSES

internship-ready alumni since 2020

30-HOUR BIOTECHNOLOGY CURRICULUM INCLUDES ADVANCED TOPICS LIKE GENETIC **ENGINEERING AND SYNTHETIC BIOLOGY**

400%

increase in student awareness of biotech careers

2024 EMERGING LEADERS ALUMNAE REPORT DRAMATIC CONFIDENCE INCREASES:

78% MORE CONFIDENT IDENTIFYING EMPLOYERS WHO MATCH THEIR INTERESTS

84% MORE CONFIDENT PLANNING COURSEWORK TO REACH CAREER GOALS

87% MORE CONFIDENT PERFORMING COMPLEX BIOTECH LABORATORY & RESEARCH TASKS





MEET THE TEAM

Our work would not be possible without the unwavering dedication, boundless creativity, and remarkable grit of the following team members. Thank you for everything you do!

Adrianna Garza
Alejandro Cardemil
Ali Main
Ashley LaVerdure
Ashlyn Stuberfield
Baker Cox
Benedetta Naglieri
Brian Gaines
Desurae Matthews

Emily Adams Muhler Hannah Schoeppner Ingra Williams Jaida Burch Janeé Pelletier Jennifer V. Colvin Joe Wilkerson Jordan Long Joshua Avalos Katie Askelson Kristin Diamantides Nicole Santoro Nora Bransom Oliver McSweeney Savannah Stone Shane Slaughter Tori Bishop

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Volunteering with Learning Undefeated is more than just a day of giving back: it's a chance to change a student's perspective about what's possible. Our corporate partners are shaping how students think about careers.

2024/25 SCHOOL YEAR STATS

144 VOLUNTEERS

6,700+ STUDENTS IMPACTED

233 HOURS DONATED

If your company is interested in learning more about volunteer opportunities with Learning Undefeated, contact Alejandro Cardemil, partnerships@learningundefeated.org





"OUR VOLUNTEERS GET SO MUCH OUT OF VOLUNTEERING — THEY ARE INSPIRED AND ENERGIZED BY THE STUDENTS' EXCITEMENT FOR LEARNING AND ARE PROUD TO SHARE THEIR EXPERIENCE AND PASSION FOR STEM."

-TRACY MERRELL, HR BUSINESS PARTNER REGENXBIO



"THROUGH VOLUNTEER OPPORTUNITIES
WITH LEARNING UNDEFEATED—ESPECIALLY
THOSE FOCUSED ON INCREASING FEMALE
REPRESENTATION IN STEM—WE'RE INSPIRING, MOTIVATING, AND ENGAGING A MORE
DIVERSE GROUP OF FUTURE INNOVATORS
AND LEADERS."

-TIFFANY LUKIS, DIRECTOR OF STEM & COMMUNITY ENGAGEMENT ASTRAZENECA



"IT'S ALWAYS FULFILLING TO GIVE BACK TO FUTURE GENERATIONS, TO HELP SUPPORT AND NURTURE THEM AS THEY ARE LEARNING. YOU ALSO ARE OPENING THEIR MINDS AND GIVING THEM SOME INSIGHT INTO WHAT THEY CAN BE."

-TAMU WALTON, ENUM CHAIR
KEYSIGHT TECHNOLOGIES



DONATE TODAY

MAKE A DIFFERENCE

Support our STEM programs with a donation online today. Your gift provides more opportunities for students to gain exposure and learn skills in STEM fields.

learningundefeated.org/donate







SIGNATURE PARTNERS















COMMUNITY PARTNERS

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Boys & Girls Clubs of Greater Houston
Building STEPS
Fort Meade Alliance
Housing Opportunities Commission of Montgomery County
Junior League of Corpus Christi

EDUCATION PARTNERS

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Calcasieu Parish School Board, Louisiana
Cheney University of Pennsylvania

Delaware Technical Community College

Discovery Education
DoD STEM DSEC

Just Do It Now. Texas

Educate Maine

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Howard Community College

Howard County Public School System, Maryland

Maryland STEM Education to Employment Ecosystem
Maryland Tech Council

Montgomery County Economic Development Commission Montgomery County Office of Grants Management

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Naval Medical Research Center NIH-National Cancer Institute

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Walter Reed Army Institute of Research

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Southeastern Center of Robotics Education

TIES, Teaching Institute for Excellence in STEM

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