Applicant Information

Applicant Name (Organization):	
Applicant Street Address:	
Applicant City/Town:	

Contact Details

Grant Contact Full Name:	
Title:	
E-mail:	
Telephone:	
Accounting/Finance Contact:	
Accounting/Finance Email:	
Additional Contact:	
Additional Contact Email:	

Applicant Overview

Applicant Category

Types of schools to be served (please check all that apply)

Team

Provide the names, titles, email addresses, and qualifications of all personnel actively engaged in the design and implementation of the project. Please also identify which team member(s) is/are the project lead(s).

Describe the role of each team member listed above as it pertains to the project (planning, implementation, etc.).

Program Description

Overview

Provide a brief overview of your proposal (1 paragraph)

Please summarize (1) the overall purpose/goal of the project; (2) total amount of funds requested; (3) how funds will be used (specify only major pieces of equipment); (4) number of students anticipated to be served; (5) number of teachers participating in professional development (if applicable); and (6) key partners involved in implementation.

Select the type of project or program

Is the proposed program/project mandatory for all students, or an elective?

Curriculum

Curriculum Name:

Describe the curriculum proposed to be implemented or expanded and provide a clear, logical, and practical roadmap for how you will execute your project. It should demonstrate that your organization has carefully considered the implementation process and is well-prepared to achieve the project's goals effectively.

Please name the curriculum provider for the proposed project.

How does this project advance student understanding of life sciences and skills related to life sciences, as defined by MLSC?

The “life sciences” are defined by MLSC as “advanced and applied sciences that expand the understanding of human physiology and have the potential to lead to medical advances or therapeutic applications.” Activities/curricula should seek to enhance skills relating to human biology/biomedical sciences, chemistry, engineering, robotics, and/or computer/data science that will prepare them for life sciences careers in sectors such as biotechnology, pharmaceuticals, medical device/technology, medical diagnostics, bioinformatics, and digital health. **Activities related to the following are not eligible for funding: earth and space science, clean energy, climate/environmental science, gardening/botany, animal science/veterinary assisting, and allied health/healthcare (e.g. nursing, medical assisting, etc.).**

Describe the primary goal(s) for implementing the curriculum and your desired outcomes (short and long term).

Describe in detail the specific, measurable, achievable, realistic, time-based (SMART) objectives of the proposed program, course, or curriculum.

What Massachusetts science, technology, and engineering standards does the proposed curriculum meet?

Describe how the new equipment will be integrated into the curriculum to improve STEM education and achieve the project goals.

How will instructional design be used to maximize integration of technology into curriculum and daily classroom use?

Outline strategies for engaging and orienting teachers with the new equipment.

What are the strategies for recruiting students to the course or program (if elective)?

Detail any extracurricular activities, projects, or competitions that will be initiated to encourage participation and engagement.

If applicable, what experience does the curriculum provider have partnering with schools serving high populations of underrepresented and/or economically disadvantaged youth?

Career Awareness and Exploration

Describe how the proposed curriculum provides students with relevant, technical skills that prepare them for careers in the life sciences (biotechnology, pharmaceuticals, medical devices, data sciences, etc.).

Explain how the new/enhanced curriculum will help students to understand the real-world applications of the new equipment.

Identify and describe in detail, activities related to career and workforce readiness in life sciences. What efforts exist or will be made to encourage participation in experiential learning (e.g. internships/co-ops)?

Schools

Schools receiving funding through this program must be either vocational technical high schools, public schools located in a Gateway City, or public schools with at least 25% of students classified as "low income" by DESE.

School information entered in this table should reflect ALL students enrolled, not just those served by the particular program for which you are seeking funding.

Total number of students

estimated to be served by the grant (annually):

If the grant would serve multiple schools, break down the number of students by school estimated to benefit from the curriculum and access the new equipment.

If applicable, how would this project support vertical alignment of the curriculum within the district?

Do any of the schools to be served hold current and active Innovation Career Pathways designations, or are they applying for any ICP designations? Please name any ICPs related to life sciences.

See the Department of Elementary and Secondary Education (DESE) Innovative Career Pathways website for more information.

Do any of the schools implement state-approved Career Technical Education Chapter 74 (CTE) programs? Please name any programs related to life sciences.

See the Department of Elementary and Secondary Education (DESE) CTE website for more information.

Do any of the schools currently participate in the Massachusetts Science and Engineering Fair (MSEF)? If not, is there interest in participating in this annual event?

See MSEF website for more information.

Equipment and Supplies

Provide a detailed summary of the equipment, supplies, and/or technology that will be used to effectively implement the proposed curriculum. Demonstrate a sufficient need for the requested items and describe the value it would bring to delivering quality instruction and preparing students for placement in jobs within the life sciences sector.

Explain how the equipment directly supports the objectives and activities outlined in your proposal.

Demonstrate the specific objectives for the requested items with respect to: a) implementing the proposed curriculum; b) promoting career awareness in the life sciences field; and c) delivering quality instruction and preparing students for placement in jobs within the life sciences sector.

Is there dedicated space for the equipment? If not, is there a plan to secure sufficient space if the grant is awarded?

Provide a timeline for ordering the equipment and identify the personnel responsible for ordering, receiving, and setting it up.

Professional Development

Total number of teachers to receive professional development:

Provide the name(s) and title(s) of teachers that would be participated in the PD training. If the grant would serve multiple schools, break down the number of teachers by school estimated to receive PD.

Describe specific needs for professional development that will arise from the implementation of curriculum and the purchase of new equipment.

Describe the organization(s) that would be providing the professional development (if the provider is not the applicant).

What are the qualifications of the PD provider(s) as it relates to the professional development goals?

What experience does the curriculum provider have partnering with schools serving high populations of underrepresented and/or economically disadvantaged youth?

How will the professional development be delivered/executed? Will the professional development occur in school, a non-school site, or remotely?

How will teachers be recruited to participate in professional development sessions?

Will teachers receive professional development points (PDPs), certifications, or graduate credits for the training? If so, list the

number of points or credits.

How many out-of-school hours are required for participants?

Describe the SMART Objectives of your proposed professional development.

How will the proposed PD enhance teacher expertise, improve classroom instruction, boost student engagement, connect with real-world applications, and support career awareness, etc.?

Partnerships and Collaboration

Some examples of partnerships include any of the following: grant funding, providing input and review of curriculum design, participation on an advisory board, supplying donations of equipment/personnel time, providing mentorships, career counselling, guest speakers, job shadowing, field trips, internships/co-ops/apprenticeships, etc.

How have industry partners contributed to the development of the curriculum?

Industry partners are defined as life sciences industry companies or employers.

How have other, non-industry, partners contributed to the development of the curriculum?

Non-industry partners are defined as academic and community partners such as colleges/universities, non-profit organizations, associations, training providers, and community-based organizations.

Highlight any industry and non-industry connections that will support the project. Include plans to partner with organizations for directly contributing to the implementation or planning of activities including professional (soft) skills development, career awareness, career projects, mentorships, career counselling, guest speakers, site visits, job shadowing, and/or internships/co-ops/apprenticeships.

Describe specific plans to collaborate with other teachers, departments, schools, institutions, or organizations to enhance the project's impact.

Sustainability

Discuss how you plan to ensure the sustainability of the equipment and curriculum beyond the grant period.

Describe the extent to which the program is leveraging other funds to maintain presence of equipment at schools, including the school/district budget.

Resource and Risk Management

Provide a detailed overview of who will manage the grant funds and who will allocate the grant resources.

Explain any contingency plans for unexpected challenges or issues that may arise during the project, i.e., teacher turnover.

Describe your strategies for mitigating these risks and managing any unexpected issues.

Evaluation and Impact Assessment

How will the success of the program be measured and evaluated? Detail any tools or assessment methods that will be used to measure changes in student skills, confidence, and interest.

NOTE: MLSC will require pre- and post-implementation surveys for students and teachers.

When selecting success metrics, consider relevance to stated objectives, feasibility (data collection and analysis), and presenting the impact in a comprehensive way. Consider a combination of quantitative and qualitative metrics to provide a well-rounded assessment of your project's success.

For reference, please download this list of example metrics suggested for this program, which aligns with annual reporting requirements.

Budget

Amount Requested from MLSC for Equipment/Supplies:	
Amount Requested from MLSC for Professional Development for Fiscal Year 2027 (July 1, 2026-June 30, 2027::	
Amount Requested from MLSC for Professional Development Fiscal Year 2028 (July 1,2027-December 31, 2027)::	
Total Amount Requested from MLSC:	
Total Cost of Implementation:	

If the MLSC grant would not cover the full cost of implementation, how will the difference be met? Have you identified additional funding sources? If not, what is the plan to secure this funding?

Signature

Applicant is aware of the 3-year annual reporting responsibilities for grantees, as indicated on the grant program webpage/solicitation, and has reviewed the sample Annual Report provided.

☐ **Yes**

Applicant is aware of the 3-year pre- and post-program student survey responsibilities for grantees, as indicated on the grant program page, and has reviewed the student survey guidance document provided.

☐ **Yes**

Authorized Representative Signature and Acceptance
I verify that I am authorized to commit my organization and to make this application on behalf of the organization. I certify that the above information is correct and that the statements made herein, including all attachments and exhibits, are true and correct to the best of my knowledge. The submission of false information to the Massachusetts Life Sciences Center (MLSC) is subject to prosecution under the False Claims Law at M.G.L. c. 12, sections 5A – 5O. I understand that this Program Application may be disqualified if it does not contain all required information or if the Applicant does not meet the eligibility criteria required under the Program. I specifically acknowledge that all of the terms and conditions of the Solicitation are mandatory.

On behalf of the applicant, I understand and acknowledge that all materials submitted as part of this application are subject to disclosure under the Massachusetts Public Records Law. Furthermore, I understand and acknowledge that I have followed the procedures set forth in Section 9 of the Program Solicitation for any documents that I believe may be proprietary in nature and that may fall within the parameters of the MLSC's Trade Secrets Exemption; and that the MLSC's receipt of such documents does not

represent a finding by the MLSC of the Supervisor of Public Records that such documents fall within the Trade Secrets Exemption. I acknowledge and agree that the MLSC has sole discretion to determine which applicants receive benefits under the Program.

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