Non-Profit Representative Information

Applicant Name (Organization):	██████████
First Name of Non-Profit Applicant:	
Last Name of Non-Profit Applicant:	
Title of Non-Profit Applicant:	
E-Mail of Non-Profit Applicant:	

Collaborators

Name	Role	E-mail	Phone	Organization
First name of Authorized Representative:				
Last name of Authorized Representative:				
Title of Authorized Representative:				
E-mail address of Authorized Representative:				

Non-Profit Address

Business Address:		Business City/Town:	
Business State:		Business Zip Code:	
Business Country:		Business Telephone:	
Business Fax:			

Non-Profit Press Contact

Name of press contact:		Press contact e-mail address:	
Press contact telephone:			

Project Team Members

Qualifications of the Management Team

In an effort to review all applications to the MLSC, based solely on the merits of the proposal and qualifications of the team, the MLSC will be blinding the identities of team members to our reviewers in our review process.

Non-profit PI Lead Name

This field will be blinded to reviewers.

Title and Department

Institution

Please describe the PI's relevant experience, without identifying him/her by name or gender.

Ex. The PI has 10 years of experience administering and managing projects, several of which have included small clinical trials. The PI is the research group leader with expertise in the areas of XYZ...

Company Technical Lead Name

This field will be blinded to reviewers.

Title and Department of Company Lead

Please describe the company lead's relevant experience, without identifying him/her by name or gender.

Ex. The X at the company has more than 10 years of medical device experience, where they developed novel pumps and algorithms to deliver compounds through subcutaneous infusion. The lead has held previous roles as X, responsible for XYZ.

Please describe the company's role in the project proposal, without identifying members of the team by name.

Company 2 Technical Lead Name

Title and Department of Company Lead

Please describe the company lead's relevant experience, without identifying him/her by name or gender.

Ex. The X at the company has more than 10 years of medical device experience, where they developed novel pumps and algorithms to deliver compounds through subcutaneous infusion. The lead has held previous roles as X, responsible for XYZ.

Please describe the company's role in the project proposal.

Company 3 Technical Lead Name

Title and Department of Company Lead

Please describe the company lead's relevant experience, without identifying him/her by name.

Ex. The X at the company has more than 10 years of medical device experience, where they developed novel pumps and algorithms to deliver compounds through subcutaneous infusion. The lead has held previous roles as X, responsible for XYZ.

Please describe the company's role in the project proposal.

For the new data science team member, please upload a sample job description, including qualifications of the potential candidate and responsibilities.

Note: Uploaded documents must be in .pdf file format.

Proposal to MLSC

Please **DO NOT** include the name or gender for scientists involved in the project proposal.

Proposal Title:

What is the project summary/abstract?

The recommended number of words for this answer is: 250 words. (5 sentences or less)

Describe the clinical/scientific need or problem the project seeks to address.

The recommended number of words for this answer is: 150 words.

Describe the current solution.

The recommended number of words for this answer is: 150 words.

Describe the potential impact and the importance the project will have in moving this field forward.

The recommended number of words for this answer is: 250 words.

What are the detailed activities (including experimental design, if you already have the samples on hand or anticipated time to acquire, and type of analysis) you propose to meet the milestones outlined with the MLSC funds?

The recommended number of words for this answer is: 300 words.

What is the gender distribution between animals/cell lines to be studied and how will gender differences be reported? If gender will not be studied in equal numbers, please explain why.

The recommended number of words for this answer is: 50 words.

What is your competitive advantage over other similar approaches in this field?

The recommended number of words for this answer is: 100 words.

What is the current intellectual property status (including foundational IP)? Is IP generation under this project expected?

The recommended number of words for this answer is: 75 words.

Does the requested capital equipment already exist at your institution or others in the state? If so, please describe the value in purchasing additional infrastructure.

The recommended number of words for this answer is: 250 words.

This grant also requires that capital equipment purchased using MLSC funds be made available to the public. Please describe your plans for allowing access, including the business model, if applicable.

The recommended number of words for this answer is: 250 words.

The MLSC is striving to incorporate convergent approaches in healthcare discovery and innovation. Proposed projects that involve engineering, biology, chemistry and/or data science teams/components, will be favorably viewed. Please describe if and how your proposed projects fits this convergence model.

The recommended number of words for this answer is: 200 words.

What are the key challenges to successful translation of the outcomes/technology and how do you plan to overcome them?

The recommended number of words for this answer is: 200 words.

Describe the impact of your proposed project in and on Massachusetts (in the context of local business or research partnerships, local purchasing, local prototyping, patients, jobs etc.)

The recommended number of words for this answer is: 200 words.

Who will be responsible for training the new scientist(s), and what additional skillsets should they expect to gain?

The recommended number of words for this answer is: 200 words.

Data Handling

Bits to Bytes aims to support the generation and analysis of large data sets to answer pressing questions in the life sciences. Strong applications will be able to demonstrate a commitment and ability to structure and share data in a standardized way. The MLSC acknowledges that data may be kept proprietary to the parties for a reasonable amount of time, but ultimately will need to be made available to the greater life sciences research community.

Clearly describe the nature and value of the data sets and tools to be generated under this program.

The recommended number of words for this answer is: 200 words.

Please address your plans to make all data sets (with accompanying metadata and tools) generated using MLSC funds available to the public, including where the data will be stored, timing of upload, how access will be managed, and long-term sustainability.

The recommended number of words for this answer is: 500 words.

Provide details about the data science/analytics skills applied (machine learning, AI, etc.)

The recommended number of words for this answer is: 250 words.

Financial Considerations and Project Timeline

Total amount requested from MLSC

Typical grant requests for this program are up to $750,000. If you are requesting more than $750,000, please describe the compelling circumstances and provide sufficient information to justify this special request. The Center reserves the right to adjust the requested amount.

The recommended number of words for this answer is: 150 words.

Breakdown of Expenditures Upload

In a new tab, download and complete the [GOOGLE FORM](#) provided showing the **detailed** breakdown of expenditures for MLSC funds, as well as the applicant and company contributions and their monetary value. Include vendor quotations of capital equipment cost as appropriate.

Proposal Narrative

References Upload

Please upload any references in .PDF format as it relates to the narrative above.

Upload letter(s) of commitment from each Company partner outlining their financial and in-kind contributions (reagents, supplies, in-kind salary support, etc.). Reminder: At least one letter must include a commitment to pay the salary of at least one new scientist for the duration of the project.

Uploaded documents must be in .pdf file format.

Is this a new project the team will be pursuing together, or a follow up to a previous research endeavor? Please describe.

Note: Sponsored Research Agreements (or other such similar arrangements) executed before **January 23, 2020** between the parties will not be considered as part of the letter of support for this program.The recommended number of words for this answer is: 75 words.

Executive Summary

Please upload a **.PDF** of your executive summary of no more than 5 pages containing the information below. **DO NOT** include citations in the narrative (superscript numbers are ok) as you will have an opportunity upload the actual references in a separate section.

- Overview of the need
- Proposed project highlights/milestones/deliverables
- Supporting data generated to date
- Other relevant/compelling information
- Impact on MA
  - How will capital equipment purchased under the award be made available to other scientists (non-profit and companies)?
  - If large data sets will be generated under this award, describe the process and timing of making this resource available.

Signature

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 Bits to Bytes 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 also acknowledge and agree that the MLSC has sole discretion to determine which applicants receive benefits under the Program. On behalf of the applicant, I understand and acknowledge that all materials submitted as part of this application may be subject to disclosure under the Massachusetts Public Records Law. "Public records" may not, however, include materials or data which fall within a specifically enumerated exemption set forth in the MLSC's enabling act, M.G.L. Chapter 23I. Such exemption may be applicable to materials or data submitted to the MLSC that consist of trade secrets or commercial or financial information regarding the operation of any business conducted by the company, or regarding the competitive position of such company in a particular field of endeavor (Trade Secrets Exemption). I understand and acknowledge that if I wish to submit materials or data to the MLSC that may be proprietary in nature and may fall within the parameters of the Trade Secrets Exemption, I must identify such materials and data as Confidential. I also understand that the receipt of such materials/data by the MLSC does not represent a finding that such materials/data do qualify for protection under the Trade Secrets Exemption.