

Bits to Bytes FY25 Application

Applicant Name (Organization) (required)
Select v
This will automatically be blinded to reviewers.
Non-Profit Principal Investigator (required)
First Name Last Name This will automatically be blinded to reviewers.
Title of Non-Profit Principal Investigator (required)
This will automatically be blinded to reviewers.
Email of Non-Profit Principal Investigator (required)
email@example.com
This will automatically be blinded to reviewers.
Phone of Non-Profit Principal Investigator (required)
■■ ∨
This will automatically be blinded to reviewers.
Authorized Representative (required)
This will automatically be blinded to reviewers.
Title of Authorized Representative (required)
This will automatically be blinded to reviewers.

Email of Authorized Representative (required)

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Projec	t Team Memb	Ders (required)	С	D	E	F	e**

	А	В	С	D	Е	F	(
1		Organization Name	Entity Type (For- Profit or Non- Profit)	Contact Name	Title of Contact	Organization Location	Contact Address

	А	В	С	D	Е	F	
2	1						
3	2						
4	3						
5	4						
6	5						
7	6						
In an e	In an effort to review all applications, based solely on the merits of the proposal and qualifications of the team, the MLSC will blind the identities of team members to reviewers during the review process.						
This fie	Profit PI Lead N		(required)				
Non-l	Profit PI Institut	ion (required)					
Pleas	e describe the	PI's relevant ex	perience, with	out identifying	him/her by nan	ne or gender. (r	equired)
						Limi	t: 500 words
		experience adminis ler with expertise in		ng projects, several	of which have inclu	uded small clinical t	rials. The PI
Comp	oany 1: Lead Sc	ientist Name (re	equired)				

Company 1: Title and Department (required)
Company 1: Company Name (required)
Company 1: Please describe the company lead's relevant experience without identifying him/her by name or gender. (required)
Limit: 150 wo
Ex. The X at the company has more than 10 years of medical device experience, where they developed novel pumps and algorithm to deliver compounds through subcutaneous infusion. The lead has held previous roles as X, responsible for XYZ.
Company 1: Please describe the company's role in the project proposal, without identifying members the team by name. (required)
Limit: 150 wo
Do you have another industry partner? (required)
Yes
O No
For the new postdoctoral data scientist, please upload a sample job description, which includes qualifications of the potential candidate and responsibilities. (required)
Choose File
Jpload a file. No files have been attached yet.
Acceptable file types: .pdf
Note: Uploaded document must be in .PDF file format.

1. P	roposal Title (required)						
	at disease(s) and/or o	condit	tions does this study	/ prima	arily target? Please c	hoose	e up to three options.
	Agriculture		Autoimune Disorders		Cancer - Breast		Cancer - Others
	Cancer - Ovarian		Cardiology/ Cardiovascular Research		Chronic Illness/Disease		Endocrinology
	Environmental Health		Gastrointestinal (GI)		Geriatrics & Gerontology		Hematology
	Immunology/Inflammat		Infectious Diseases		Liver		Maternal/Infant Health
	Metabolic Diseases		Microbiome		Neuroscience		Nutritional Science
	Oral Health		Orthopedic Research		Pediatric Research		Psychiatry/ Mental Health
	Public Health/ Epidemiology		Rare Diseases		Regenerative Medicine		Reproductive Health
	Toxicology		Women's Health/ Gender Studies		Other		N/A
	at modality/modalitie	es doe	es your project prima	arily er	nploy? Please choos	e up t	o three options.
	Cell & Gene Therapy		Clinical Trials		Data Science		Diagnostics
	Digital Health		Drug Delivery		Drug Discovery & Development		Imaging
	Medical Device		mRNA/siRNA/ RNA Research		Personalized/Precision Medicine		Phototherapy
	Radiation Therapy		Robotics		Vaccines		Other
	N/A						
Wh	at are tools and tech	nique	s used in your proje	ct? Ple	ease choose up to th	ree op	otions. (required)
	3D printing		AI/ML/Deep Learning		Antibody		Automation
	Biomanufacturing		Biomarker Identification		Biomaterials/ Material Sciences		Biosensor

	Contract Work- CRO/CDMO/CMO		Crystallography/ Peptide synthesis		CT/MRI		Data Optimization
	EEG&ECG		Electronic Medical Record (EMR)		Engineered Microbes		FACS/ Flow Cytometry
	Genome Editing		Genomics		In Vitro cultures		In Vivo animal models
	Liquid Chromatography		Mass Spectroscopy		Metabolomics		Microscopy
	Nanotechnology		Next-generation Sequencing		NMR/MRS		Organoid/ Organ-on-a- chip
	Pasteurization/ Sterilization		Patient Avatars		Proteomics		Small Molecule
	Software & Algorithms		Transcriptomics		Ultrasound		Viral Vector
	N/A		Other				
	uired)						Limit: 75 words
Bits t appli ackn	cations will be able to dem	onstrat e kept p	e a commitment and ability proprietary to the parties fo	to stru	ets to answer pressing que acture and share data in a s sonable amount of time, bu	tandar	dized way. The MLSC
	learly describe the n uired)	ature	and value of the data	a sets	and tools to be gene	erateo	d under this program.
							Limit: 200 words
							Little. 200 WOIUS

4. 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. (required)

	Limit: 500 word
5. Please describe previous experience with data sharing, including details of the nature mode of sharing, and how access was determined. (required)	of the data,
	Limit: 200 word
5. How will you track the number of downloads of your data? If your data will not be place epository, do you have experience generating repositories (please provide examples)? If provide a detailed plan for the new repository that will house the data generated under the (required)	not, please
	Limit: 200 word
7. Provide details about the data science/analytics skills applied (machine learning, AI, etc. Information about the nature/size of the datasets, test data, algorithm development, etc. Idetailed! (required)	
	Limit: 400 word
8. Data Sharing Confirmation: I have secured approval from both my institution and in partner to publicly release all data, metadata and tools generated under this award in and interoperative way.	uir
Proposal Details	

9. Describe the clinical/scientific need or problem the project seeks to address. (required)

	Limit: 150 words
10. Describe the current solution. (required)	
	Limit: 150 words
11. Describe the potential impact and the importance the project will have	in moving this field forward.
(required)	g
	Limit: 250 words
12. What are the detailed activities (including experimental design, if you a hand or anticipated time to acquire, and type of analysis) you propose to with the MLSC funds? (required)	
	//
	Limit: 300 words
13. What is the gender distribution between animals/cell lines to be studie differences be reported? If gender will not be studied in equal numbers, p	<u>-</u>
amerenees se reperteur ii genaer iiii net se staarea iii eqaar namsers, p	усаве ехріані тту (геданеа)
	Limit: 50 words
	Littit. 30 Words
14. What is the distribution of racial, geographic, and any other identifiable	e social determinants of
health, and how will differences be reported? Please list which factors will	
studied, please explain why. (required)	

Limit: 50 words

15. What is your competitive advantage over other similar approaches in this field? (required)

	Limit: 100 words
16. What is the current intellectual property stat this project expected? (required)	us (including foundational IP)? Is IP generation under
	Limit: 75 words
17. Does the requested capital equipment alread please describe the value in purchasing addition	dy exist at your institution or others in the state? If so, nal infrastructure. (required)
	Limit: 250 words
18. This grant also requires that capital equipme available to the public. Please describe your plascientists and the timeline, as well as the busine	ns for promoting and allowing access to outside
	Limit: 250 words
	n academic scientist(s) external to your include a brief (3 sentence) description describing a ind/or data set generated under the award. (required)
: - '	
С	Choose File
Upload a file. No files have been attached yet.	
Acceptable file types: .pdf	
Please upload up to three letters in one PDF file.	
partner(s). The letter should include a brief (3 se	m industry scientists external to your institution/industry entence) description describing a project that would use
the capital equipment and/or data set generated	a anacı uıc avvara, (requirea)
С	Choose File
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Please upload up to	three letters in one PDF file.	
	e key challenges to succes ne them? (required)	sful translation of the outcomes/technology and how do you
plan to overeor	(required)	
		Limit: 200 words
		project in Massachusetts (in the context of local business or ocal prototyping, patients, jobs etc.) (required)
		Limit: 200 words
	responsible for training the pect to gain? (required)	e new postdoctoral scientist(s), and what additional skillsets
Should they exp	required)	
		Limit: 200 words
Financial Consi	derations and Project Time	alino
Tillaliciai Colisi	derations and Project Time	mile
24. Total amou	nt requested from MLSC (re	equired)
\$	USD	
25. Total Comn	nitted from Industry Partne	r(s) (required)
\$	USD	
26. Total Comn	nitted from Non-Profit Appl	icant(s) (required)
\$	USD	

Upload a file. No files have been attached yet.

Acceptable file types: .pdf

\$750	ypical grant requests for this program a 0,000, please describe the compelling o	ircumstances and	d provide sufficient	information to justify
nis s	special request. The Center reserves the	e right to adjust tr	ne requested amou	nt. (required)
				Limit: 150 word
	Breakdown of MLSC Expenditures: Please kdown of expenditures for MLSC funds.	-	/ILSC Budget to sho	ow the detailed
				w ^a
	А	В	С	D
1	MLSC Expenses for Project			
2	Category Options: Equipment, Supplies/Reagents, Renovation/Construction, Core Facilities			
3				
4	Total Contribution MLSC	0		
5	FY26 (7/1/25 – 6/30/26)	0		
6	FY27 (7/1/26 – 6/30/27)	0		
7	FY28 (7/1/27 – 6/30/28)	0		
8				
9				
	For the MLSC Budget, please include ve se only include the page that shows the	-		
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ссер	otable file types: .pdf			
O NO	OT MENTION THE PI BY NAME OR GENDER IN AN	Y UPLOADS.		
ne c	Breakdown of Academic Non-Profit Expendence I etailed breakdown of expenditures for application, contributions includes fund	funds to be contr	ibuted by the Acad	emic Partner(s). For
	ributions from for-profit institutions and		=	is call iliciaue

	А	В	С	D	Е	
1	Academic Non-Profit Expenses for Project					
2	Category Options: Equipment, Supplies/Reagents, Renovation/Construction, Salaries, Indirects, Facility Costs					
3						
4	Total Contribution - Academic	О				
5	FY26 (7/1/25 – 6/30/26)	О				
6	FY27 (7/1/26 – 6/30/27)	О				
7	FY28 (7/1/27 – 6/30/28)	0				
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DO NOT MENTION THE PI BY NAME OR GENDER IN ANY UPLOADS.

31. Breakdown of Industry Partner(s) Expenditures: Please complete the Industry Partner Budget to show the detailed breakdown of expenditures for funds to be contributed by the Industry partner(s).

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	А	В	С	D	E	^
1	Inudstry Expenses for Project					
2	Category Options: Equipment, Supplies/Reagents, Renovation/Construction, Salaries, Indirects, Facility Costs					
3						
4	Total Contribution - Industry	0				
5	FY26 (7/1/25 – 6/30/26)	0				
6	FY27 (7/1/26 – 6/30/27)	0				
7	FY28 (7/1/27 – 6/30/28)	0				
8						
9						•

DO NOT MENTION THE PI BY NAME OR GENDER IN ANY UPLOADS.

32. Upload letter(s) of commitment from each non-profit and Company partner outlining their financial and in-kind contributions (reagents, supplies, in-kind salary support, etc.) described in the budget form. Please have the letter reference your project title, but do not include applicant name/gender. If the non-profit applicant is not committing cost-share dollars, please include a letter from the institution describing their commitment to house the equipment and support the project in general. Reminder: At

	Choose File
Jpload a file. No files have been attac	ned yet.
Acceptable file types: .pdf	
DO NOT MENTION THE PI BY NAME (OR GENDER IN ANY UPLOADS.
33. Is this a new project the te endeavor? Please describe. (re	am will be pursuing together, or a follow up to a previous research
	li di
application due date will not be consid	Limit: 75 words is (or other such similar arrangements) between parties that are executed before the ered as part of the letter of support for this program.
application due date will not be consid 34. Supporting Data	ss (or other such similar arrangements) between parties that are executed before the
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34. Supporting Data Upload a file. No files have been attac	ered as part of the letter of support for this program. Choose File
34. Supporting Data Upload a file. No files have been attace	cs (or other such similar arrangements) between parties that are executed before the ered as part of the letter of support for this program. Choose File
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34. Supporting Data Upload a file. No files have been attace Acceptable file types: .pdf	cs (or other such similar arrangements) between parties that are executed before the ered as part of the letter of support for this program. Choose File ned yet.
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Blinded Declaration

The MLSC is making a concerted effort to blind applications from reviewers. As such we are requesting that you please do not mention the PI by name or gender unless specifically requested.

If there is mention of the Pl's name or gender in the submitted application, except where explicitly requested, **your application may be deemed ineligible.** Prior to submission, please use **CTRL+F** to search the application for the **Pl's name and gendered pronouns (he/him/his or she/her/hers)** in all text fields, references, patents, budget forms, letters, and other uploads to ensure that they are only found in fields where specifically requested.

Once you are ready to submit, please agree to the declaration below by selecting the below checkbox.

	except where explicitly asked. Lunderstand that it the PLS name of dender remains in the	qui
	application, except where explicitly requested, my application may be ineligible.	red)
		,
Au 	Ithorized Signature and Acceptance (required)	,
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Acc	ceptable file types: .pdf, .jpg, .jpeg, .png	
l ve about the enu data bus Seconati also	chorized Representative Signature and Acceptance - cerify that I am authorized to commit my organization and to make this application on behalf of the organization. I certify that the cover information is correct and that the statements made herein, including all attachments and exhibits, are true and correct to the stof my knowledge. The submission of false information to the Massachusetts Life Sciences Center (MLSC) is subject to secution under the False Claims Law at M.G.L. c. 12, sections 5A – 5O. I understand that this Bits to Bytes Program Application by be disqualified if it does not contain all required information or if the Applicant does not meet the eligibility criteria required der the Program. I also acknowledge and agree that the MLSC has sole discretion to determine which applicants receive benefit der the Program. I specifically acknowledge that all of the terms and conditions of the Solicitation are mandatory. On behalf of the olicant, I understand and acknowledge that all materials submitted as part of this application may be subject to disclosure under Massachusetts Public Records Law. "Public records" may not, however, include materials or data which fall within a specifically unerated exemption set forth in the MLSC's enabling act, M.G.L. Chapter 23I. Such exemption may be applicable to materials or a submitted to the MLSC that consist of trade secrets or commercial or financial information regarding the operation of any siness conducted by the company, or regarding the competitive position of such company in a particular field of endeavor (Trade crets Exemption). I understand and acknowledge that if I wish to submit materials or data to the MLSC that may be proprietary in ure and may fall within the parameters of the Trade Secrets Exemption, I must identify such materials and data as Confidential. I to understand that the receipt of such materials/data by the MLSC does not represent a finding that such materials/data do qualif protection under the Trade Secrets Exemption.	ts ne e
Но	ow did you hear about the program? (required)	
\bigcirc	Social Media	
\bigcirc	MLSC Newsletter/Website	
\bigcirc	Third Party (MassBio, MassMedic, etc.)	
\bigcirc	Other (specify below)	
	Select for the Principal Investigator to receive email notices and updates from the MLSC	
Υοι	u may unsubscribe at any time.	
We	e look forward to reviewing your application and working together to advance life sciences research	h

with big data in Massachusetts. If you have any questions or need assistance, please contact our team at BitsToBytes@masslifesciences.com.

Save Draft

Submit Form

Drafts may be visible to the administrators of this program.			