



## **Request for Proposal (RFP): Whole Genome Sequencing for MLSC Biobank Program**

Ends on Fri, Apr 17, 2026 11:59 PM

### **1. Background and Purpose**

The MLSC Biobank Program is a statewide, multi-institutional initiative designed to support biomedical research through secure, equitable access to high-quality biospecimens and associated data. As part of this effort, MLSC seeks qualified vendors to provide **whole genome sequencing services** for human biospecimens collected across participating academic medical centers.

The objective of this RFP is to enable generation of high-quality, research-grade whole genome sequencing data that can be linked to biospecimens and clinical data under MLSC governance frameworks.

### **2. Scope of Work**

#### **A. Sample Processing and Sequencing**

- DNA quality assessment and library preparation.
- Whole genome sequencing at research-grade coverage levels.
- Support for blood and tissue-derived DNA.
- Adherence to standardized sample handling and chain-of-custody procedures.

Examples include, but are not limited to:

#### **1. Laboratory and Quality Systems**

- CLIA certification (optional)
- CAP accreditation (optional)
- ISO 9001 (Quality Management)
- ISO 20387 (Biobanking)

#### **2. Data Security and Privacy**

- SOC 2 Type II
- ISO/IEC 27001
- Other third-party security or compliance audits

#### **B. Data Generation and Quality Control**

- Generation of raw sequencing data and processed outputs.
- Defined quality metrics and thresholds.
- Documentation of batch effects and sequencing performance.

### **C. Data Delivery and Integration**

- Secure data transfer to MLSC-designated storage platforms.
- Delivery of metadata and QC reports.
- Compatibility with downstream bioinformatics and data curation pipelines.

### **D. Compliance and Security**

- Compliance with HIPAA and applicable data protection requirements, as well as MA regulations for handling human samples.
- Secure handling of human genomic data.
- Encryption in transit and at rest.

### **3. Vendor Qualifications**

- Demonstrated experience providing WGS services for human research samples.
- Capacity to support large-scale, multi-institutional programs.
- Proven quality control and reproducibility practices.

### **4. Proposal Requirements**

Executive summary, technical approach, quality controls, experience and references, implementation plan, pricing, and assumptions.

### **5. Evaluation Criteria**

Technical quality, scalability, data quality, compliance, experience, and cost. Evaluation Period: Proposals will be weighted based on technical expertise, alignment with the MLSC's needs and cost-efficiency. Finalists may be interviewed in mid/late May. A decision will be made in May/June with a tentative commencement in June.

MLSC reserves the right to modify this timeline at its discretion.

### **7. Additional Terms**

For questions regarding this RFP, contact: [BioBank@masslifesciences.com](mailto:BioBank@masslifesciences.com)

This RFP does not constitute an obligation to fund any proposals. The MLSC reserves the right to modify or cancel this RFP at any time and may request further clarifications or conduct interviews as part of the selection process.

## **Thank you for your interest in the MLSC Biobank Program**

Please read the scope of work prior to submitting the proposal.

## **Requirements**

### **Proposal Requirements**

Responding organizations must submit a complete proposal that addresses the following elements. Proposals that do not include all required components may be considered non-responsive.

## **Applicant Information**

**Legal Name of Organization** (required)

**Primary Point of Contact Name** (required)

First Name (required)

Last Name (required)

**Primary Point of Contact Email** (required)

**Primary Point of Contact Phone** (required)



**Company Website** (required)

**Headquarters Location** (required)

Country (required)

Select... ▼

Address (required)

Address Line 2 (optional)

City (required)

State, Province, or Region (required)

Zip or Postal Code (required)

**Section 1: Executive Summary**

**1.1 Overview of WGS Services** (required)

Limit: 500 words

Provide a concise summary of your whole genome sequencing capabilities and how they align with the MLSC Biobank Program.

## Section 2: Technical Approach

### 2.1 Sample Types Supported (required)

Limit: 300 words

Describe supported biospecimen types and DNA input requirements

### 2.2 Sequencing Methodology (required)

Limit: 300 words

Describe library preparation methods, sequencing platforms, and typical coverage levels.

### 2.3 Quality Control Metrics (required)

Limit: 300 words

Describe QC thresholds and performance metrics used to assess data quality.

## Section 3. Data Delivery and Integration

### 3.1 Data Outputs (required)

Limit: 300 words

Describe raw and processed data deliverables and associated metadata.

### 3.2 Secure Data Transfer (required)

Limit: 300 words

Describe data transfer methods and security controls.

## Section 4. Compliance and Security

### 4.1 Regulatory Compliance (required)

Limit: 300 words

Describe compliance with HIPAA and applicable data protection requirements

### 4.2 Data Security Controls (required)

Limit: 300 words

Describe encryption, access controls, and audit mechanisms.

### 4.3 Please upload documentation for all applicable laboratory accreditations, quality management certifications, and data security or privacy certifications held by your organization. (required)

Choose File

Upload a file. No files have been attached yet.

Acceptable file types: .csv, .doc, .docx, .odt, .pdf, .rtf, .txt, .wpd, .wpf, .gif, .jpg, .jpeg, .png, .svg, .tif, .tiff

Examples include, but are not limited to:

#### Laboratory and Quality Systems

- CLIA certification (optional, not required)
- CAP accreditation (optional, not required)
- ISO 9001 (Quality Management)
- ISO 20387 (Biobanking)

#### Data Security and Privacy

- SOC 2 Type II
- ISO/IEC 27001
- Other third-party security or compliance audits

## Section 5. Experience and References

### 5.1 Relevant Experience (required)

Limit: 300 words

Describe prior WGS projects involving human research samples.

### 5.2 References (required)

Limit: 300 words

Provide at least two references, including organization name, contact name, and email.

## Section 6. Implementation and Pricing

### 6.1 Implementation Timeline (required)

Limit: 300 words

Describe expected turnaround times and onboarding approach.

### 6.2 Pricing Structure (required)

Limit: 300 words

Describe pricing and cost assumptions.

## Section 7. Supporting Materials

### 7.1 Optional Uploads (required)

Choose File

Upload a file. No files have been attached yet.

Acceptable file types: .csv, .doc, .docx, .odt, .pdf, .rtf, .txt, .wpd, .wpl, .gif, .jpg, .jpeg, .png, .svg, .tif, .tiff

Upload technical documentation or sample reports.

**Save Draft**

**Apply**

Drafts may be visible to the administrators of this program.