

CAPABILITY STATEMENT



THE CRITICAL CHALLENGE

41,000+ unfilled biodefense positions = \$3B annual productivity gap threatening America's national security



OUR PROVEN SOLUTION

GEMS' Curriculum to Career Continuum delivers 100% career placement through integrated industry partnerships, hands-on BSL2 CLIA laboratory training, and direct mentorship pathways that create immediate operational capability.



TEAM EXPERIENCE & EXPERTISE

Leadership Credential	Achievement
Career Placement Success	100% graduate employment
Students Trained	10,000+ medical/dental professionals
Federal Contract Performance	95% Exceptional CPARS ratings
Program Value Managed	\$300M+ multi-year education & research grant program contracts
Collective Biodefense Experience	100+ years proven expertise



CORE CAPABILITIES

Training & Workforce Development

Advance STEM immersion across genomics, AI, biodefense, computational data analytics | Professional development | Performance acceleration

Education & Outreach

Student pathways | Veteran transitions | Innovation hubs | Industry engagement summits

Strategic Implementation

Government-industry-education integration | Policy frameworks | Centers of excellence establishment



COMPETITIVE ADVANTAGES

- **Immediate Deployment Readiness** - Graduates enter workforce operationally capable
- **Gold Standard Compliance** - CAP/CLIA/ISO aligned methodologies
- **Proprietary Training Protocols** - Next-generation technology integration
- **US-Based Operations** - Security compliant, domestically focused
- **Scientific Sovereignty** - Building sustainable national expertise pipeline that strengthens security and improves health outcomes



SELECTED PAST PERFORMANCE

Virginia Bio (2022-2024) | Workforce Development & Leadership Training

Loudoun County Schools (2023-Present) | Health & Medical Sciences Workforce Pipeline Development

George Mason University (2024-Present) | Research & Lab Skills Development

University of Maryland (2025-Present) | Virus Immunosurveillance & Therapeutic Drug Development Capstone



CALL TO ACTION

DONATE - Fund the future for biodefense professionals

COLLABORATE - Partner with us to strengthen America's scientific sovereignty

DISSEMINATE - Share our mission to close the national security workforce gap

Together, we secure America's biodefense future through strategic genomic excellence training.



ORGANIZATION PROFILE

501(c)(3) Non-Profit | National Impact | Mission-Critical Focus
Guidestar EIN: 92-3563843

