

BlueWater Bioinformatics, LLC

Capability Statement



Company Overview

BlueWater Bioinformatics, LLC (BWB) is a Small Business Administration (SBA) 8(a) self-certified firm specializing in bioinformatics, computational biology, and artificial intelligence for biomedical research and healthcare innovation. End-to-end data science solutions for U.S. federal agencies, academia, the pharmaceutical industry, and the biotechnology arena supporting genomics, precision medicine, and biomedical discovery. BWB expertise bridges biomedical research, high-performance computing, and machine learning to accelerate scientific insight and clinical translation.

Core Capabilities and Services

Bioinformatics & Genomics

- genomic sequence analysis
- multi-omics data integration
- variant calling and annotation
- cancer genomics pipelines

Biomedical Artificial Intelligence

- machine learning for biomarker discovery
- predictive disease modeling
- imaging genomics

Computational Biology

- network biology and pathway analysis
- gene expression modeling
- systems biology analytics

Scientific Computing Infrastructure

- high-performance computing (HPC)
- cloud-based bioinformatics pipelines
- reproducible research environments

Biomedical Data Engineering

- ETL pipelines for clinical and omics data
- FAIR data architecture
- biomedical knowledge graphs

Key Differentiators

- PhD-level bioinformatics, computational biology, machine learning and life science expertise
- Deep experience in NIH-style biomedical datasets

- AI models tailored for omics and imaging data
- Expertise in open-source bioinformatics frameworks
- Rapid deployment of scalable cloud pipelines

Relevant Tools & Technologies

Python, R, Perl Java, C++, JavaScript, ColdFusion	Docker, GitHub, Kubernetes
TensorFlow	PyTorch
Nextflow	Snakemake
HistomicsTK	GATK
Cloud services & HPC: AWS, Azure, Google Cloud	HPC and Parallel Processing

NAICS Codes

Primary:

541714 – Biotechnology Research and Development

Secondary:

541715 – Life Sciences R&D

541519 – Other Computer Related Services

541511 – Custom Computer Programming

Contracting Information

Business Status:

SBA 8(a) Self-certified Small Business

Contract Types:

8(a) Sole Source

Firm Fixed Price

Time & Materials

IDIQ Task Orders

Contact Information

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