



BARYONYX MANAGEMENT CONSULTING

# CAPABILITY STATEMENT

## ABOUT US

Baryonyx Management Consulting, Inc. is a premier data analytics-focused consulting firm with over 20 years of experience providing our services to public and private sector clients with a focus on Department of Homeland Security (DHS) Components. Our team of experts specializes in quantitative research, data analytics, organizational performance management, forecasting, modeling, research and development consulting, and metric development. Whether it involves building risk-fraud-complexity models using AI/ML at USCIS to help adjudicators process and vet immigration applications, or using optimization methods to conduct fleet force analyses at USCG or building discrete event simulation models at TSA to assess manpower requirements under various conditions, we have an exceptional track record of helping organizations leverage data for business intelligence and maximizing efficiency and operational performance.

Our services include operational performance management and all aspects of data analytics and data science including statistical and mathematical modeling, simulation, optimization, data engineering and management. We are recognized experts in the modeling community across the Department of Homeland Security. At Baryonyx, we are passionate about attention to detail. Our extreme commitment to detail is a hallmark of our company culture and is evident in the high-quality work we deliver to our clients. We have earned extensive praise from our clients for our ability to consistently produce results that exceed their expectations.

## DIFFERENTIATORS

- Ability to leverage data to gain operational insights and clearly interpret results to a wide range of audiences
- Experience developing and deploying AI/ML solutions across DHS Components
- Team commitment and attention to detail
- Analytical problem-solving in workforce/manpower and operations modeling
- Big data expertise for innovative and practical solutions
- Quantitative methods for business problem-solving

## PAST & PRESENT CLIENTS

U.S. Citizenship and Immigration Services

FEMA

U.S. Immigration and Customs Enforcement

USDA



## CORE COMPETENCIES



### Data Analytics & Management

- Integrated workforce/manpower and workload modeling
- Optimization, simulation and statistical analysis
- Data governance and data quality
- Data Visualization
- Data architecture and database administration



### Data Science

- Data engineering
- Predictive modeling and forecasting
- Artificial Intelligence, machine learning and deep learning
- Statistical and mathematical modeling



### Technology & Innovation

- Process automation and digital transformation solutions
- Decision intelligence and executive decision-support tools
- Cloud, low-code, and open-source enterprise architectures
- Secure DevSecOps pipelines and system integration

## CERTIFICATIONS & CONTRACT VEHICLES

- GSA Multiple Award Schedule (MAS) # GS-00F-234GA
  - SIN 541611 (Professional Services – Business Administrative Services)
  - SIN 54151S (Information Technology Professional Services)
- SBA Certified Small Disadvantaged Business

## NAICS CODES

- 541330 Engineering Services
- 541511 Custom Computer Programming Services
- 541512 Computer Systems Design Services
- 541519 Other Computer Related Services
- 541611 Administrative Management and General Management Consulting Services
- 541612 Human Resources Consulting Services
- 541614 Process, Physical Distribution, and Logistics Consulting Services
- 541618 Other Management Consulting Services
- 541720 Research and Development in the Social Sciences and Humanities
- 541990 All Other Professional, Scientific, and Technical Services

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