



Computational Mathematics and Physics Solutions, LLC

Capabilities Statement

CORE COMPETENCIES

- Computational physics & mathematics
- Numerical solutions to partial differential equations
- Large-scale network simulation & optimization, including:
 - Multiscale modeling of physical systems
 - Large-scale power grid simulation
 - Mechanical modeling of fibrous networks
- AI & machine learning, including:
 - Computer vision
 - Generative AI (e.g., diffusion models, agentic systems)

DIFFERENTIATORS

- Ph.D.-level expertise in physics and mathematical research
- Strong capabilities in numerical methods and AI technologies
- Advanced research in AI and modeling
- Extensive experience supporting scientific applications
- Specialization in scalable scientific computing
- High performance and cloud computing capabilities
- Responsive small business
- Agile development and problem solving
- Advanced degrees, including in physics (Ph.D.) and mathematics (M.A.)

COMPANY DATA

Registered Company Name: Computational Mathematics and Physics Solutions, LLC
Year Incorporated: 2024
State of Incorporation: Pennsylvania
Corporation Type: LLC
D-U-N-S: 133912087
UEI: F4N2EBM8HU58
CAGE: 0Q7Y9
NAICS Codes: 541715, 541714, 541713, 927110
Business: Small Business

CONTACT INFORMATION

Name: Russell Spiewak
Email: russellspiewak@gmail.com
Phone: (732) 735-1668
Website: <https://www.computationalmathematicsandphysicsolutions.org/>