The Society for Industrial and Applied Mathematics (SIAM), a 14,000-member organization representing applied mathematicians and computational scientists and engineers

SUPPORT HEALTH RESEARCH FUNDING
SUPPORT MATH AND COMPUTATIONAL SCIENCE

WE REQUEST FOR NIH

$51.3 BILLION IN FY 2026

Applied mathematicians and computational scientists and engineers in all sectors, greatly appreciates the lasting commitment Congress has shown to the National Institutes of Health (NIH). Artificial intelligence (AI), machine learning (ML), data science, and quantum computing have tremendous potential to transform health and biomedical research. Congress should continue to make robust investments at NIH in the areas of AI, ML, data science and quantum computing. In addition, Congress should continue to ensure that ARPA-H must be inclusive of the applied mathematics and computational science community.

BIOMEDICAL AND HEALTH RESEARCH IS ESSENTIAL
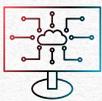
Emerging Tecnologies
NIH supports key emerging technologies like Artificial intelligence, machine learning, data science, and quantum computing, critical to health innovation. NIH should seek opportunities to support more AI and ML research grants and advance new AI initiatives.

Transformative Research
ARPA-H aims to develop entirely new ways to tackle the hardest challenges in health, by advancing high potential, high-impact biomedical and health research that cannot be readily accomplished through traditional research or commercial activity. Predictive and informed modeling, data analytics, machine learning, AI, and related technologies have potential to transform biomedical research and healthcare and Congress should encourage ARPA-H to prioritizes these non-traditional approaches to biomedical advances.

Emerging Diseases and Forecasting Pandemics
The Centers for Disease Control and Prevention (CDC) Center for Forecasting and Outbreak Analytics (CFA) utilizes the expertise of the applied math and computational science community and enables timely, effective decision-making through innovative data analytic and modeling approaches. Congress should continue to support the CFA and provide $50 million for FY 2026.

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