

Helping make advances in technology make a difference in lives

ESAC provides research data management, bioinformatics, and state of the art health information technology solutions for government, commercial and academic clients. Headquartered in Rockville, MD, our mission is to play a vital role in helping clinicians, scientists and researchers across the globe improve all aspects of human health.



Research Data Management

Management, Analysis and Visualization of Big Data



Health Information Technology

Solutions for Interoperable Health Information



Bioinformatics

Algorithms and Technologies for 'Omics' and Precision Medicine



Cloud Computing

Infrastructure and Services for Life Science Data and Systems

ESAC bridges the gap between science and technology by delivering best in class solutions to address pressing health IT challenges. The breadth of our staff expertise enables us to deliver a broad range of solutions across industry verticals. Our exemplary track record demonstrates our commitment to client success.

Customers



Certifications & Accolades



ESAC is a Small Disadvantaged Business (SDB)

DUNS # 807935080 CAGE Code: 58RR0

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Research Data Management



ESAC's research data management services include Big Data harmonization and management, large consortia coordination, project management, and software engineering for life science applications in Proteomics, Genomics, Epidemiology, and others. We provide turnkey engineering services and solutions that address the challenges associated with Big Data. Current and next-generation "omics" characterization programs generate massive volumes of data requiring special expertise to clean, interpret, store, and securely share. ESAC has the track record necessary to relieve the burden of Big Data management from researchers, while adhering to FAIR-TLC principles, via data frameworks and integration tool building expertise.

Bioinformatics



The push for personalized medicine has caused an explosion in the availability of biomedical data requiring expertise in algorithms, analysis tools, and visualization techniques. ESAC data scientists and bioinformaticians have extensive experience in developing and implementing complex algorithms to analyze 'omics' data for biomarker discovery pipelines.

Our areas of expertise include analysis using tools, including R, Python, SPSS, STATA, and SAS, as well as visualization tools such as heat maps and graphical dashboards. Command of natural language processing (NLP) tools and techniques also add to ESAC's unique role in making precision medicine a reality.

Healthcare IT



At ESAC, we are committed to meeting the health IT needs of our clients by partnering with them to deliver scalable and interoperable health IT solutions. This helps increase efficiencies and reduce costs in an effort to deliver better healthcare for patients.

Our software development, systems integration, and database solutions use emerging standards like HL7 FHIR and an agile methodology, allowing our clients to realize maximum ROI with lower risk. In addition, ESAC offers innovative strategies in development of health IT tools, electronic clinical quality measures, quality standards, data analytics, and education & outreach activities to improve our nation's healthcare quality and patient safety.

Cloud Computing



ESAC's cloud computing for health IT and life sciences offerings include designing and architecting solutions for managing large datasets, computational pipelines for bioinformatics, DevOps, microservices, serverless computing, cloud migration, and FedRAMP-compliant web sites on Amazon Web Services (AWS), Google Cloud Platform (GCP), and other commodity cloud providers.

Our team architects applications for secure private networks, taking into account fault tolerance, failover, load balancing, VPN, on demand content distribution channels, high performance computing, and secure analytics. ESAC's data scientists deliver AI and machine learning-based, cutting edge solutions to address the emerging challenges faced by private and Federal agencies.

Contract Vehicles

GSA IT-70 (SINS 131-52 & 56) | GSA PSS (MOBIS) IDIQ | GSA 8A STARS GWAC
HHS PSC IDIQ | CMS MIDS IDIQ | CMS SPARC (Sub) | CIO SP3 (Sub) | SEAPORTNXG (Sub)

NAICS

541511	541513	541611	541690	541715	541990	518210	541330
541512	541519	541618	541714	541720	511199	519190	541430

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