



ECONOMETRICA, INC.

ECONOMETRICA'S TECHNICAL CAPABILITIES DATA ANALYTICS GROUP (DAG)

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ABOUT ECONOMETRICA

Econometrica, Inc., is a research and management organization providing consulting and analytical services. Since our founding in 1998, Econometrica has delivered on contracts for Federal departments and agencies in the healthcare, education, transportation, energy, housing, and finance sectors. We specialize in data science and analytics, statistics, economic analyses, and program implementation and evaluation services.

ANALYTICAL EXPERTISE

- ▶ Technical SMEs with extensive experience in leading complex analytical projects.
- ▶ Certified and experienced data scientists, computer programmers, economists, statisticians, and program evaluators.
- ▶ Experts working across different analytical platforms and subject areas.
- ▶ Design and implementation of cloud solutions for government agencies.
- ▶ Staff at all levels with public trust and higher-level clearances.

OUR CLIENTS



DAG TECHNICAL SKILLS AND EXPERTISE

DATA ENGINEERING

- ▶ Extract, transform, load (ETL), data frame design, data storage
- ▶ Data cleansing/preparation, conversion, quality assurance
- ▶ Requirements, parallel programming, code review, testing
- ▶ Statistical programming, data analysis
- ▶ Application development, API/web scraping

MACHINE LEARNING

- ▶ Text mining
- ▶ Natural language processing
- ▶ Reinforcement learning
- ▶ Supervised and unsupervised machine learning methods
- ▶ Model tuning and feature selection techniques

DATA VISUALIZATION

- ▶ Customized infographics and maps
- ▶ Interactive dashboards that are accessible across different platforms
- ▶ Dynamic dashboards for multi-user role-level security environments
- ▶ Professional editing services and Section 508 compliance

ECONOMIC ANALYSIS & REGULATORY SUPPORT

- ▶ Analytics such as benefit-cost analysis (BCA), cost-effectiveness analysis (CEA), break-even analysis, return on investment (ROI), supply/demand analysis
- ▶ Regional economic impact analyses, including the estimation of direct, indirect, and induced impacts
- ▶ Construction of industry and market profiles
- ▶ Development of economic models for simulation, estimation, and forecasting purposes
- ▶ Risk and uncertainty analyses, including Monte Carlo simulation and solutions for addressing low-probability, high-consequence (LPHC) events
- ▶ Support of all phases of the Federal rulemaking process, from Notices of Proposed Rulemaking (NPRM) through Final Rules

PROGRAM EVALUATION

- ▶ An agile evaluation approach featuring rapid-cycle analytics
- ▶ Design and implementation of innovative quantitative methods
- ▶ Expertise in mixed-methods evaluation design
- ▶ Large-scale qualitative research design and implementation
- ▶ Expertise in conducting primary data collection using various strategies

STATISTICS/SAMPLING

- ▶ Design and implementation of customized statistical sampling plans
- ▶ Parametric and non-parametric statistical modeling
- ▶ Generalizable statistical analysis and hypothesis testing
- ▶ Forecasting and predictive analytics



DAG PROJECT HIGHLIGHTS

OPEN PAYMENTS PROGRAM ANALYTICS

CMS, CENTER FOR PROGRAM INTEGRITY (CPI)

TASK: Support CPI in implementing the Open Payments Program and maximizing program compliance via a suite of analytical services.

SOFTWARE: SAS, Python, IDR, Secure Analytical Server

EXPERTISE: Compliance analytics, auditing, monitoring and evaluation, data science, machine learning, big data processing, data visualization.

DATA SCIENCE SUPPORT FOR THE SBA OFFICE OF THE INSPECTOR GENERAL

SMALL BUSINESS ADMINISTRATION, OFFICE OF THE INSPECTOR GENERAL (OIG)

TASK: Support SBA's OIG in developing and deploying analytic tools to detect and prevent fraud across SBA loan programs.

SOFTWARE: Python, MS Azure (and the suite of Azure analytical tools)

EXPERTISE: Fraud-detection analytics, artificial intelligence/machine learning, data visualization, data tool development.

DISCLOSURE AVOIDANCE SYSTEM

U.S. CENSUS BUREAU

TASK: Support the U.S. Census Bureau with designing and implementing a differentially private Top Down Algorithm (TDA) to protect confidentiality while maintaining the overall accuracy of aggregate tabulations published for the 2020 Census data.

SOFTWARE: Python, SAS, JavaScript, AWS EMR, APIs

EXPERTISE: System development, web application and API development, Agile project management, conversion of SAS code to Python, dynamic dashboards

THE MILLION HEARTS INITIATIVE

CMS, CENTER FOR MEDICARE & MEDICAID INNOVATION (CMMI)

TASK: Supported CMMI in its effort to close a gap in cardiovascular care by incentivizing healthcare practitioners to engage in beneficiary cardiovascular disease risk calculation and population-level risk management.

SOFTWARE: SAS, CCW, IDR, Secure Analytical Server

EXPERTISE: Medicare claims analytics, beneficiary attribution, calculation of program incentive payments, HIGLAS/MAC payment processing, validation of beneficiary and visit information, reporting and data visualization.

ECONOMIC ANALYSIS CONSULTING SERVICES

U.S. DEPARTMENT OF THE INTERIOR (DOI), BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT (BSEE)

TASK: Provide DOI/BSEE with expert assistance and technical support for economic analyses of BSEE's regulatory promulgations designed to improve environmental and safety protection for offshore oil and gas production and carbon sequestration.

SOFTWARE: SAS, Python, MS Excel

EXPERTISE: Regulatory support, Federal rulemaking, regulatory impact analysis, Regulatory Flexibility Act analysis, economic analysis, benefit-cost analysis, cost estimation, benefit estimation, public comment processing and response, economic modeling, risk and uncertainty analysis, low-probability high-consequence events.

WORK WITH US

Econometrica is a small business with a diverse set of technical skills. We would love to work with you.

CONTACT US

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CONTRACT VEHICLES

CMS:	RMADA 2 IDIQ
CMS:	Measure and Instrument Development and Support (MIDS)
CDC:	ICRA IDIQ
Ginnie Mae:	Pool 1 – Corporate Risk Activities
HRSA:	HRSA Evaluation IDIQ
NHTSA:	Technical Support Services for NHTSA 2020
SAMHSA:	Domain IIS Statistical Projects
SAMHSA:	Domain VS Technical Assistance and Training Projects
USDA FNS:	Child Nutrition Programs Operations BPA
HUD:	Community Compass (Multiple Fiscal Years)
EDA:	Disaster Recovery Support Services BPA
USAC:	Enterprise Statistician Services BPA
U.S. Navy:	SeaPort NxG MAC
GSA:	MAS SINs 541611/54151S

ECONOMETRICA, INC.

SERVICE CLASSIFICATIONS

NAICS Codes	NAICS Title
541611	Administrative Management & General Management Consulting Services
518210	Data Processing, Hosting & Related Services
519190	All Other Information Services
524298	All Other Insurance Related Activities
541219	Other Accounting Services
541330	Engineering Services
541430	Graphic Design Services
541511	Custom Computer Programming Services
541512	Computer Systems Design Services
541513	Computer Facilities Management Services
541519	Other Computer Related Services
541618	Other Management Consulting Services
541620	Environmental Consulting Services
541690	Other Scientific & Technical Consulting Services
541720	Research & Development In The Social Sciences & Humanities
541810	Advertising Agencies
541990	All Other Professional, Scientific & Technical Services
561410	Document Preparation Services
561499	All Other Business Support Services
561920	Convention & Trade Show Organizers
611430	Professional & Management Development Training

CODES

UEI: EHJKHN7FE8D7

Cage Code: 1PZY5