




### About COLSA

COLSA is a proven leader in innovative technologies that maintains our commitment to customer service above all else. Established in 1980, COLSA has remained steadfast in our commitment to one goal: to serve the company's clients with dedication and excellence.


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## Institutionalizing Data Science

### Empowering the Enterprise

Most organizations understand that there is value in the ever-increasing volume and availability of data but face several challenges when it comes to realizing that value. This typically results in investing in technical solutions that are not aligned with the problem to be solved, or are beyond the skillsets of the team.

Challenges of understanding the overwhelming possibilities of where and how to best invest in building a data science capability:

- Unique requirements of your organization, such as aligning to Department or Agency policy, strategy, and direction.
- Understanding the vast landscape of tools and technologies, and which to invest in.
- Building a “data literate” culture.
- Attracting, training, and retaining the right talent.

### Capabilities

COLSA understands and addresses these challenges:

#### Unique requirements

Our 40 year history of supporting clients across the federal government gives us a depth of understanding of unique organizational requirements, as well as a broad understanding of other organizations' challenges and how they approached them.

#### Technologies

We stay abreast of the latest tools, technologies, and academic research in order to implement and test various solutions that are cost effective and scalable to the enterprise.

#### Culture

Requires some “evangelism” within the organization. Appreciating the value of sharing data, breaking down siloes, and making more transparent data-driven decisions are essential early steps in building a “data literate” culture.

#### Talent

Our decades of experience of sourcing the right talent, combined with our understanding of the spectrum of skillsets across the data science landscape gives us the advantage in helping to build and train a data-savvy team that has the right combination of skills and domain expertise.

## Data Science

From direct support on critical missions to leading-edge Research and Capability Development, Data Science at COLSA is driving solutions development to address the DoD and Intelligence Community's toughest challenges.

**Data Analysis and computational sciences (Dacs) Lab** ◆

**Enterprise-wide Strategies for Data Science** ◆

**Data Engineering and Machine Learning Operations (Mlops)** ◆

**Knowledge Management Solutions** ◆

**Enhanced Signals Analysis** ◆

**Scientific Machine Learning** ◆

## Services & Approach

COLSA's approach to institutionalizing Data Science in your organization starts with the "why." Organizations should start by focusing on the questions to be answered and problems to be solved instead of starting with the data. Once you have an understanding of what you want out of your data, you can begin to prioritize your investments strategically and architect the "how."

The COLSA Data Analysis and Computational Sciences (DACS) Lab maintains an on-going research focus to advance solutions. The DACS Lab consists of multiple research and development environments to include an ability to work with operational mission data and unique mission specific prototype development environments.