



INSTITUTE FOR DATA SCIENCE IN ONCOLOGY

Signature Priority Committee fundraising guide

In patients with a cancer diagnosis, data-empowered decisions are unlocking a new dimension that includes genomics, proteomics, patient medical data, and 2D and 3D imaging. The Institute for Data Science in Oncology (IDSO) at The University of Texas MD Anderson Cancer Center is leveraging the extraordinary potential of team data science, AI and predictive analytics to reveal insights that hide deep within vast amounts of data to help us deliver better, safer care by accelerating the translation of scientific breakthroughs and ultimately unlocking the mysteries of cancer. When fully realized, IDSO will be the single largest investment in oncology data science in history.

The next era of discovery

IDSO has ambitious plans for growth. Philanthropy will support staffing, technology, education of the current and future workforce, transformative community collaborations, and leading-edge team data science projects across five strategic areas:

- **Quantitative analysis and insights from imaging and pathology data:** IDSO will harness enormous amounts of digital pathology and imaging data to provide accelerated, rigorous and actionable insight for patients, from diagnosis to intervention and follow-up.
- **Single-cell analytics for accelerated discovery and target development:** Uniting MD Anderson’s unmatched basic science and bioinformatics communities with the world’s best minds in team data science, IDSO will reveal transformative insights into cancer at the most fundamental levels.
- **Computational modeling and AI-enabled drug discovery and development:** We will bring unmatched clinical, research and imaging capabilities together with scientific partnerships involving experts from many domains to discover new treatment options and drive personalized, adaptive treatment approaches for patients.
- **Modeling complex interventions for cancer in Texas and beyond:** IDSO will position MD Anderson as a global leader in applying data-informed computational approaches to model complex systems and the impact of decision-making related to cancer at the personal, state, national and international levels for the purpose of broadly improving outcomes and expanding our reach.
- **Development of approaches to increase access, safety and quality in cancer care:** Establishing core expertise in operations-related data science and accelerating industry partnerships will bring innovative approaches to efficiency, quality and resiliency throughout MD Anderson.

As an essential member of the IDSO team, you have the passion, creativity and insight to:

ACT as an ambassador within your network and community, educating others about IDSO.

ADVISE executive leadership, sharing your expertise and your insights about potential supporters or volunteers.

INSPIRE and **INFORM** others by hosting an event to introduce IDSO, at which experts share the latest updates.

Unlocking the power of big data and AI

Launched: [November 2023](#)

Led by:
[David Jaffray, Ph.D.](#)
[Caroline Chung, M.D.](#)

Fundraising target:
\$150 million by Aug. 2028

Funds raised:
\$60 million+ committed as of July 2025

Watch: [MD Anderson’s Institute for Data Science in Oncology](#)