# HEALTH AND LIFE SCIENCES: OVERVIEW

**§sas®**

HEALTH AND LIFE SCIENCES ORGANIZATIONS around the world are using next-generation analytics from SAS to power discovery in new therapies and make decisions for resource optimization, research, regulatory compliance, patient journey and frontline operations.

## INDUSTRY SUBSECTORS

- Biostatistics
- Clinical Research
- Commercial Health Care
- Epidemiology
- Population Health
- Finance
- Health Care Operations
- Health Insurance
- Market Access
- Pharmaceuticals
- Prescription and Illicit Drug Use

## SAS® SOFTWARE

- SAS/STAT®
- SAS® Enterprise Miner™
- SAS® Viya®
- SAS Visual Analytics
- SAS Visual Statistics
- SAS Visual Data Mining and Machine Learning

## COMPANIES HIRING SAS® SKILLS

- Aetna
- Amsterdam UMC
- Anthem
- GlaxoSmithKline
- IQVIA
- Kaiser Permanente
- Highmark Health
- Humana
- Pfizer
- UnitedHealthcare

*Source: Emsi and public job boards

**49**

Countries have SAS health care customers

## PREPARE FOR A CAREER IN HEALTH AND LIFE SCIENCES

**100%** of the Fortune 500 HLS companies are SAS customers

**>2,350** Life sciences companies of all sizes use SAS

### DEVELOP TOP DESIRED HARD SKILLS

1. SAS
2. SQL Programming
3. Data Analytics

### COMMON JOB TITLES

- Actuarial Analyst
- Analytics Consultant
- Biostatistician
- Business Information Consultant
- Data Analyst
- Data Scientist
- SAS Programmer

### LEARN FROM SAS

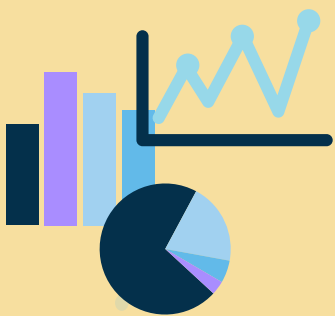Visit **SAS Academic Programs** to get access to training for:

- Programming, including macros and SQL.
- Visual analytics and statistics.
- Data mining and machine learning.

# HEALTH AND LIFE SCIENCES: CUSTOMER STORIES

Riverside County and Riverside University Health System in California are taking a data-driven approach to whole person care. Using SAS Viya, they integrate health and non-health data from the public hospital, behavioral health system, county jail, social services systems and homelessness systems. By connecting these databases, they can now see how individuals interact with different services across their health system. The team uses SAS Visual Analytics to map care pathways to health outcomes.

**READ THE FULL STORY**

Amsterdam UMC uses SAS solutions to increase the speed and accuracy of tumor evaluations. The center relies on computer vision and predictive analytics to better identify cancer patients who are candidates for lifesaving surgery. SAS Viya gives thousands of cancer researchers at Amsterdam UMC access to cutting-edge analytics to improve research and collaboration.

**READ THE FULL STORY**

Using PERL regular expression functions in Base SAS, Kaiser Permanente was able to extract data from doctors' notes to assess the risks of intrauterine device perforation and expulsion. The data was gathered from general practice notes or operative notes. Once common text was extracted, a logistic regression model estimated propensity scores to weigh risk factors.

**READ THE FULL STORY**