
LIFE SCIENCES & HEALTHCARE

TECHNOLOGY SOLUTIONS FOR
THE FUTURE OF HEALTH

PROVIDING VALUED, SOPHISTICATED SOLUTIONS IN LIFE SCIENCES & HEALTHCARE

EPAM IS A LEADING GLOBAL PROVIDER OF PRODUCT DEVELOPMENT AND PLATFORM ENGINEERING SERVICES THAT SPECIALIZES IN BRINGING INNOVATIVE TECHNOLOGY SOLUTIONS TO LIFE SCIENCES AND HEALTHCARE. WE HELP GUIDE ORGANIZATIONS AND THEIR PATIENTS FROM RESEARCH TO REAL-WORLD THERAPY – FROM THE LABORATORY TO THE HOSPITAL TO A HEALTHY HOME.



FOR YEARS, WE'VE WORKED WITH LEADING LIFE SCIENCES COMPANIES TO QUICKLY DELIVER INNOVATIVE ENTERPRISE TECHNOLOGY SOLUTIONS THAT RESULT IN DECREASED DRUG DEVELOPMENT TIME. OUR SUCCESS IN THE INDUSTRY HAS LED TO DOZENS OF AWARDS AND EVEN MORE SATISFIED CLIENTS IN PHARMA R&D.



SIMILARLY, OUR TRACK RECORD OF SUCCESS IN HEALTHCARE SPANS OVER A DECADE. DURING THAT TIME, WE'VE DEVELOPED TECHNOLOGIES THAT HAVE IMPROVED THE PATIENT AND CLINICIAN EXPERIENCE BY CREATING EFFICIENCIES IN COMMUNICATION AND BILLING, DEVELOPING NEW HEALTH MANAGEMENT TOOLS, AND MAKING WORLD-CLASS HEALTHCARE ACCESSIBLE FROM ANY DEVICE.

DEEP EXPERTISE, AWARD-WINNING WORK

OVER TIME, WE HAVE GROWN OUR PRACTICE TO EMPLOY SOME OF THE WORLD'S TOP TECHNOLOGISTS AND SCIENTISTS, RESULTING IN DOZENS OF INDUSTRY AND CLIENT IT AWARDS FOR OUR WORK IN LIFE SCIENCES AND HEALTHCARE.

EPAM LIFE SCIENCES & HEALTHCARE BY THE NUMBERS

20+ YEARS

OF EXPERIENCE SERVING LIFE SCIENCES ORGANIZATIONS

12+ YEARS

OF EXPERIENCE SERVING HEALTHCARE PROVIDERS

2100+

TOTAL CONSULTANTS, ENGINEERS, AND SCIENTISTS

10/10

OF THE TOP PHARMA COMPANIES

4/10

OF THE TOP HEALTHCARE ISVS

3/5

OF THE TOP U.S. HEALTH PLANS

AWARDS AT A GLANCE

Bio·IT World

BEST PRACTICES AWARD
2015 + JUDGES' PRIZE 2016

 **Everest Group**

RECOGNIZED BY
INDUSTRY ANALYSTS

 **NOVARTIS**

GLOBAL INNOVATION AWARD FOR
HIGH-THROUGHPUT SCREENING

AstraZeneca 

CIO EXCELLENCE AWARD 2013
FOR CLINICAL DATA
VISUALIZATION & ANALYSIS

 **MERCK**

BUSINESS PRACTICE AWARD FOR
OPTIMIZATION OF
VACCINE MANUFACTURING

 **HCI**

INCLUDED IN HEALTHCARE
INFORMATICS 100 LIST


ELSEVIER

VENDOR OF THE YEAR 2011

Scientific Computing

READERS' CHOICE AWARD FOR
MOLECULAR GRAPHICS

LEADING DIGITAL TRANSFORMATION IN LIFE SCIENCES

EPAM'S LIFE SCIENCES TEAM EQUIPS ITS CLIENTS WITH TAILOR-MADE TOOLS TO SPEED RESEARCH, DISCOVERY, AND TIME-TO-MARKET THROUGH EVERY STAGE OF DRUG DEVELOPMENT. THE RESULT IS LESS DRUG FAILURES, DIGITAL TRANSFORMATION, AND IMPROVED CAPACITY FOR EVERY CLIENT IN R&D AND BEYOND. WE OFFER:



NEW PRODUCT/SERVICE DESIGN

- BUSINESS ANALYSIS
- TECHNOLOGY ASSESSMENT
- APPLICATION DEVELOPMENT
- TESTING
- SUSTAINING ENGINEERING
- PLATFORM, APPLICATION, USER SUPPORT



RESEARCH & DEVELOPMENT

- INTEGRATED INFORMATICS FOR THE BIOTECH ENTERPRISE
- LABORATORY INFORMATION MANAGEMENT SYSTEMS
- SAMPLE PROCUREMENT, REGISTRATION, & MANAGEMENT
- ELECTRONIC LAB NOTEBOOKS
- HIGH-THROUGHPUT & HIGH-CONTENT SCREENING
- CLINICAL TRIAL DATA MANAGEMENT SYSTEMS



APPLIED MATHEMATICS

- PREDICTIVE ANALYTICS
- STATISTICS & MODELING
- HIGH-VOLUME NGS PROCESSING
- ANALYSIS OF VIDEO, IMAGES, & SPECTRA
- STRUCTURE/ACTIVITY RELATIONSHIPS
- BIOINFORMATICS
- BIOMARKER PROFILING



SCIENTIFIC COLLABORATION

- ENTERPRISE SEARCH PLATFORMS
- SOCIAL MEDIA & CROWDSOURCING
- INTEGRATION OF COLLABORATION TOOLS INTO CORPORATE & R&D WORKFLOWS
- SPECIAL-PURPOSE APPLICATIONS TO CONSUME ENTERPRISE SEARCH & SOCIAL INFORMATION



BIG DATA & DATA SCIENCES

- SCIENTIFIC DATA WAREHOUSES
- DATA FEDERATION & INTEGRATION
- SCIENTIFIC DATA CURATION
- DATA VISUALIZATION
- ELASTICALLY SCALABLE HIGH-PERFORMANCE COMPUTING ENVIRONMENTS

REALIZING THE FUTURE OF HEALTHCARE

EPAM'S HEALTHCARE TEAM COMBINES BEST-IN-CLASS DATA SCIENCE, DIGITAL EXPERIENCE, AND PERSONALIZATION CAPABILITIES TO INCREASE OPERATIONAL EFFECTIVENESS, PUSH PATIENT LOYALTY, AND CREATE THE HEALTHCARE MANAGEMENT SYSTEMS OF THE FUTURE. WE OFFER:



NEW PRODUCT/SERVICE DESIGN

- NEW BUSINESS MODELS
- MARKET CHANGES
- GROWTH STRATEGY
- EXPERIENCE STRATEGY



OPERATIONAL EXCELLENCE

- CLAIMS, ENROLLMENT, MEDICAL MANAGEMENT
- CLINICAL INTEGRATION HL7
- CLINICAL EFFECTIVENESS
- BUSINESS PROCESS REENGINEERING



HEALTHCARE ANALYTICS & BIG DATA

- POPULATION HEALTH MANAGEMENT
- PERFORMANCE & BENCHMARKING
- QUALITY REPORTING
- EVIDENCE-BASED DECISION-MAKING
- PREDICTIVE ANALYTICS



VALUE-BASED CARE

- ACOS
- CARE MANAGEMENT
- CARE TRANSITIONS
- COLLABORATIVE CARE



CONSUMER ENGAGEMENT & LOYALTY

- SELF-SERVICE PORTALS
- INSURANCE SALES
- WEARABLES & MOBILE DEVICES
- VIDEO CONFERENCING
- INCENTIVE PROGRAMS
- DIGITAL STRATEGY & USER EXPERIENCE
- PRIVATE EXCHANGES

EPAM LIFE SCIENCES CASE STUDIES

BUILDING A PLATFORM TO AUTOMATICALLY RECOGNIZE EPILEPTIC SEIZURES

UCB, a leading biopharmaceutical company focused primarily on R&D, relied on EPAM to develop a novel solution that accelerates the detection process of epileptic seizures in mice. Based on a truly transformational technology platform, the solution supports research activities in the area of antiepileptic drug discovery and has the capacity to be used on other discovery projects in the pharmaceutical industry. Winner of the BioIT World 2015 Best Practices Award, it is the first software package to enable epilepsy detection based only on accelerometer input.



SPEEDING DECISION-MAKING IN DRUG DISCOVERY WITH HTS DATA MANAGEMENT SYSTEM

Seeking to optimize its High Throughput Screening (HTS) processes, the client, a multinational pharmaceutical company, asked EPAM to develop a solution for data quality assurance that automates computation and visualization on large data sets. EPAM created an HTS Data Management System comprised of scalable technologies. The system can define and configure assays, produce plate readout visualizations, and calculate methods for primary HTS data processing. It also supports publishing from operational database to warehouse, reporting, and exportation, and can display a summary of statistics in the form of scatter and trend plots.

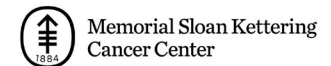
ORCHESTRATING BI ANALYTICS TO INCREASE SALES & MEDICAL EDUCATION

Searching for actionable insights that could lead to increased sales, improved marketing effectiveness, and more widespread medical education, the client, an American pharmaceutical company, engaged EPAM to develop multiple BI analytics dashboards and other tools to monitor and analyze day-to-day proceedings. EPAM ran a series of concurrent projects to identify, design, and develop the best BI analytics tools, resulting in the delivery of numerous KPIs related to a wide range of subjects. The tools provide insight into areas such as sales execution, field visits, brand awareness within the medical community, and internal iPad message plan usage, and the project culminated in the creation of a separate dashboard view for aggregated country-wide sales rep performance.

EPAM HEALTHCARE CASE STUDIES

HELPING PATIENTS MANAGE THEIR HEALTH WITH A FULLY INTEGRATED MOBILE APP

Memorial Sloan Kettering Cancer Center — the world's oldest and largest private cancer center — wanted to create a mobile app that their patients would really use. This meant providing functionality currently available in the online MyMSKCC website plus additional mobile-only functions that would truly help patients. Within eight months, EPAM delivered a secure, HIPAA-compliant, native iOS application that integrated with existing back-end systems at MSKCC. Patients are now able to manage their conditions, access labs, better understand their symptoms and medications, and get reminders to take their medication from a handy, all-in-one mobile app, previously unavailable in real time for patrons.



DELIVERING A VIDEO CONFERENCING PLATFORM FOR THE U.S.'S LARGEST TELEHEALTH PROVIDER

Teladoc launched as the first telehealth provider in the United States, and is now the largest. EPAM delivered the e-prescription, EMR, and video conferencing platform that helped earn Teladoc the title of 2013's Most Innovative Healthcare Company from Fast Company. Teladoc's more than 15-million members can use phone, mobile devices, and secure online video to connect within minutes to Teladoc's network of healthcare professionals and specialists, which is open 24/7 via the fully HIPAA-compliant and Surescripts-certified platform, hand, foot, and body protection.



INCREASING ADHERENCE & COMPLIANCE WITH INTEGRATED DECISION-MAKING TOOLS

AETNA partnered with EPAM to develop integrated adherence tools to support evidence-based clinical decision-making, identify gaps in care, and track care plan progress for 64-million members. Increased adherence and compliance helped AETNA's members achieve 8.1-million health improvements and cost savings of an estimated \$8.4-billion dollars. Turning data from National Labs, Surescripts, HIEs, devices, and hospitals into actionable insights, EPAM helped AETNA deliver value-based care using population health management via clinical and claims data aggregation.



TRANSFORM YOUR TECHNOLOGY PORTFOLIO WITH EPAM

WITH SO MANY YEARS SERVING LEADING LIFE SCIENCES AND HEALTHCARE CLIENTS, WE'VE ONLY SCRATCHED THE SURFACE IN THIS BOOKLET. IF YOU'RE READY TO RETHINK YOUR TECHNOLOGY INVESTMENT AND TRANSFORM HOW YOUR ORGANIZATION DOES BUSINESS, IT'S TIME TO PUT EPAM'S EXPERIENCE DEVELOPING ACCELERATORS, ENHANCEMENTS, AND OTHER TOOLS FOR LIFE SCIENCES AND HEALTHCARE TO WORK. CONTACT US TO START MAKING THE MOST OF YOUR R&D DOLLARS, INCREASING BUSINESS EFFICIENCY, AND IMPROVING CARE TODAY!

CONTACT US TODAY
TO SET UP A FREE
CONSULTATION.

sales@epam.com



For more information,
PLEASE VISIT EPAM.COM

41 University Drive, Suite 202
Newtown, PA 18940 USA
P: +1 267 759 9000 | F: +1 267 759 8989
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