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BIOTECH TECHNOLOGY SPECIAL

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20 Most Promising Biotech Technology Solution Providers

The United States is the largest market and leading consumer of biotechnology products in the world, and home to more than 1,300 firms involved in the industry. The country maintains a competitive environment for the development and commercialization of biotechnology with wideranging, multi-disciplinary activities including recombinant DNA techniques and cloning. Through the world's largest scientific research base and longstanding government support for biomedical and other biotechnology research and development, U.S. is set to race ahead.

In this competitive landscape, companies are surging in designing data management systems in the biotech and pharmaceutical industries, providing a platform that is transforming the healthcare experience by personalizing the process of connecting individuals with health measurement opportunities. The introduction of cloud computing is empowering the industry to transform healthcare through next-generation semantic technology, contributing to the

evolution of this sector. In research and development, big data and analytics are being adopted across pharmaceutical that has empowered firms across the world to take better decisions and develop eminent insights. Further, with the increasing use of sensors on the manufacturing floor, the network of Internet of Things has the amenities to improve patient outcomes, which will eventually take the biotech vertical to new horizons and beyond.

In the last few months, we have looked at hundreds of solution providers who primarily focus on providing the right expertise and technology to the biotech industry and shortlisted the ones that are in the forefront of tackling key challenges in the industry. In our selection, we looked at the vendors' capability to fulfill the business objectives through innovative products and services. Also, we evaluated the vendors' support through the integration of latest technologies into their system. We present to you CIOReview's 20 Most Promising Biotech Technology Solution Providers.

BioIT Solutions A Cure for Biotech's Data Management Headache

Over the past several years, advancements in genomics, proteomics, and related research technologies have multiplied the amount and variety of data scientists work with every day. The increased complexity of managing biological data is a key challenge in the biotech industry. BioIT Solutions surmounts the challenges by focusing its energy and expertise on biotechnology specialties, including genomic research, drug discovery, drug development, diagnostics, clinical operations, and intellectual property management. "Our solutions enable Life Sciences partners to focus on core activities by removing information management obstacles," says Michael Fannon, President of BioIT Solutions.

Learned from his years of experience as CIO and Director of Gene Discovery for Human Genome Sciences, Fannon defines BioIT's three key strategies: "First is our team's proven expertise in biotechnology and our ability to bridge scientific work and business needs with a common solution. Second is a deployment methodology that complements the scientific process. And, finally, we bundle this accumulated knowledge in a software platform that accurately models biological data and automates routine IT functions."

We are seeing the application of genome research in the rapidly growing field of personalized medicine. "Think about the implications of sequencing an individual's genome with high precision. To use a genome sequence for diagnostic purposes we need to compare it with well-characterized genomes. As this sort of test becomes common, we quickly see the challenge: huge quantities of information must be managed and interpreted. Further, the interpretation will evolve as a deeper understanding of the genome's influence on disease progression is understood," says Fannon.

In contrast to using different applications for

“Our customers manage their important scientific data and intellectual property on a secure, responsive, and reliable internet platform”

every function, BioIT developed an innovative informatics platform, 1Platform4, to integrate multiple scientific and business processes into a logical, consistent and responsive web application. The process begins with deployment of highly configurable software installed on a secure internet server. Then, the customer's data needs, workflow rules and access control requirements are captured in specification objects managed by 1Platform4. Customers work with early versions of the system, gaining experience and influencing the next iteration where specification objects and rules are added and changed. Their system evolves organically in a manner that fits the way they work. "We are an enterprise provider for the biotech companies. We offer highly tailored solutions while avoiding the disadvantages of custom software development," states Fannon.

The platform's power is evident when data is shared among multiple organizations. In one example, a diagnostics company approached BioIT to streamline the process for insurance reimbursement. "We implemented a solution that automatically sends patient details to the billing company before conducting the laboratory test, resulting in early resolution of errors and faster reimbursements. Our ability to solve both business and scientific problems is the foundation for our innovations," Fannon adds.

BioIT Solutions keeps a close watch on emerging technologies in biotechnology and IT. The company continues to invest in its 1Platform4 software extending its functions and reducing system deployment times. BioIT has plans to extend its integration with cloud computing platforms and more fully embrace mobile device access. "We will evolve along with our customers, adapting to changes in research technologies and offering solutions that provide real customer value," Fannon concludes. **CR**



Michael R. Fannon

Company:
 BioIT Solutions

Description:
 A recognized leader in advanced computational, workflow and data management solutions for biotech research, drug development and diagnostics.

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