Geospiza Finch® Suite

A commercial off the shelf product with interchangeable components

Geospiza Finch Suite has established itself as the life science industry’s top software system for managing the combined laboratory, data management and analytical workflows required to process and make sense of the vast amounts of genetic information being generated by clinical and life science research laboratories worldwide. The platform provides the foundation for a complete set of commercial off-the-shelf (COTS) software products and services solutions that help customers scale their throughput, increase productivity, and meet business objectives.

Geospiza’s robust, functional products can be easily configured to automate specific customer business processes, and are built to deliver as much as 85% of the user requirements for a particular laboratory or application right out of the box. Compared to in-house develop solutions and generic LIMS which deliver 30-40 percent of required functionality out-of-the-box, this approach significantly reduces project risk, implementation time and costs and provides a strong platform for future upgrades and validations.

The Geospiza Finch Suite platform is built on proven, existing software technology – Perl, Apache, Java, Postgres, Oracle – that have been combined in a unique way to ensure maximum scalability and maximum configurability. Featuring a flexible, open-architecture design, the Finch Suite platform can be configured to address a wide variety of laboratory and end-user requirements, quickly, accurately and cost effectively.

**Scalability**

As a result of its automated approach and integrated platform design, Geospiza’s Finch Suite software is highly scalable to meet the growing demands of the market. Today for example, one PhD level scientist might only be able to complete a few genetic tests in a day. With Geospiza’s software, someone of equivalent or even lower skill level has the ability to automate the production of 1000s of tests per day. Rather than manual data analysis being the bottleneck to producing valuable genetic test results, genetic analysis is streamlined and the cost per test is significantly reduced.

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Technology Validation

Geospiza’s Finch Suite solution has been broadly adopted by a variety of blue chip customers representing pharmaceutical and biotech companies, diagnostics companies, and academic and research institutions. In addition, Geospiza established a platform collaboration and distribution arrangement with Applied Biosystems in February of 2005, the largest genetic analysis instrument manufacturer.

Data Accuracy

As a result of Geospiza’s ability to process genetic data more efficiently and effectively than other software solutions, the company can provide its customers more assurance of data accuracy. Since it is expected that the FDA will focus on sensitivity and data accuracy as it considers regulated clinical diagnostic tests, Geospiza believes it is well-positioned to deliver an industry-leading genetic testing and bio-therapeutic manufacturing solutions.

Automated Data Quality Assessment

Geospiza’s software automates the most difficult and labor-intensive parts of genetic analysis. Unlike many life science applications, genetic analysis involves a complex series of steps that include data collection, organization, quality assessment, comparisons to standards, and interpretation of both primary and composite data.

Through proprietary data analysis workflows with advanced error checking and algorithms, Geospiza’s product automatically performs quality assessment and assigns data accuracy probabilities, thereby eliminating the majority of manual assessment. At the same time, the Geospiza software allows a technician to interrogate the data at any step in the pipeline process if the accuracy probability is not high enough. Each of these steps is recorded to provide audit trails necessary for tomorrow’s clinical applications.

Platform Benefits

- Open architecture based on interchangeable components allows Geospiza, our partners and our customers to rapidly develop new applications
- Robust, web-based foundation is specifically designed to scale as your organization’s requirements grow
- Automation of repeatable processes reduces the cost and labor of delivering results
- Integrated laboratory workflow, data management and analytics shortens time to results and delivers more reproducible, more accurate data
- Less risk of delivery compared to developing and maintaining an in-house solution
- Validation plans available for our customers facing regulatory review

The underlying Finch Suite architecture connects pre-production laboratory workflows with post-production data analytics into a scalable, automatable system used by diagnostic labs, contract core labs, bio-therapeutic manufacturers and life science research facilities to manage and analyze genetic data.
Platform Bulletin

Finch Suite Platform

The Finch Suite platform is comprised of many interchangeable components that can be leveraged by software development teams to provide our customers with solutions for their specific applications.

Professional Services

Geospiza offers more than just powerful products and industry-acclaimed training and customer support. Our professional services team stands by prepared to truly revolutionize the way your facility operates its business. Across medical, technology and scientific industries, from clinical DNA testing to biotherapeutic manufacturing to contract core lab services to basic research and discovery; the Finch Suite platform combined with Geospiza services gives your laboratory the power to perform your work more quickly, accurately, and cost effectively.

More Information

For a demonstration or more information about Geospiza and its Finch Suite software system, please call (206) 633-4403 or send email to sales@geospiza.com.

Interchangeable Components

- Systems Management
- Security
- Instrument Integration
- Reaction Configuration and Setup
- Laboratory Workflow Management
- BLAST Search Engine Integration
- Sequence Assembly
- Grid Computing
- File System Mounted Web Folders

- eCommerce Ordering System
- Billing and Invoicing
- User Management
- Data Archiving
- Oligo Order Management
- Confirmatory Sequencing Workflows
- Data Management
- Analytics Application Integration
- Multiple Database Options
- LDAP Configuration
- Extendible DataStore

Represents how the Finch Suite platform can be used for Genetic Testing using Confirmatory Sequencing Workflows.