

Genome International Corporation is a leading provider of sequencing services, biological content databases and data analysis products/services for the NGS industry. The company provides life science databases of unique content developed with data mining algorithms along with their interactive and dynamic user interfaces.

Overview

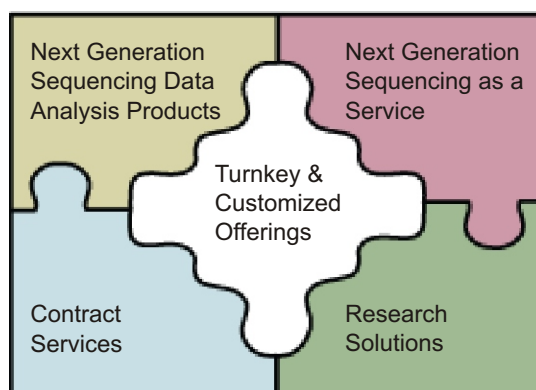
Genome International Corporation provides innovative bioinformatics products and custom research solutions for corporate, government, and academic laboratories in biomedical and plant sciences. Our scientists and engineers are passionate about delivering high quality yet cost effective products and services by innovating advances in bioinformatics and information technologies to optimize the management, analysis and mining of high-throughput molecular biology data.

GIC offers a wide array of Bioinformatics and IT services to its customers that include customized solutions, strategy consulting, sourcing in the areas of Bioinformatics, Business Analysis, Project management, Solution Design and Development, Testing, Implementation and post implementation support.

Offering

The company's main offerings are:

- Developing and manufacturing fully-integrated platform analysis techniques for genotyping
- Target enrichment and next generation sequencing and analysis.
- Key biomarkers for health and disease
- Genome wide analysis for agriculture, veterinary and human biotechnology applications.
- Scalable innovative applications across a wide array of biotechnologies



Our Offerings are cutting edge in the field and are designed to meet the needs of our various clientele. Our offerings are categorized as below.

Decoding for knowledge discovery

Multiple fields of scientific discovery and innovation

Disease-gene discovery

- ◆ Contract research for specific disease applications
- ◆ Design custom projects

Genomics and Proteomics

- ◆ Computational genomics and proteomics
- ◆ Genome-wide regulatory sequence, splice junction and exon analysis
- ◆ Biological data integration for knowledge discovery

Bioinformatics

- ◆ Curation and annotation of biological databases
- ◆ Algorithms and software development

Pharmacogenomics

- ◆ Contract research for revival of specific drugs
- ◆ Gene-marker identification for sensitivity to adverse drug effects

Agriculture

- ◆ Gene markers for plant-breeding applications
- ◆ Genetic characterization of germ-plasms
- ◆ Industry collaborations

Services

- Start-to-finish sequencing and data analysis services
- NGS data storage and management
- Custom Bioinformatics workflows for NGS applications (RNA-seq, Chip-seq, Exome sequencing, microRNA-seq, methylome-seq)
- Custom biological data curation and bioinformatics applications development
- Analytical service for agricultural, pharmaceutical, health and veterinary fields
- Biomedical and translational research
- Bioinformatics R & D project management

Offering

- Mapping sequence reads to reference genomes or de novo sequence assembly
- Our comprehensive workflows are designed to extract and decode knowledge encoded in the highly information rich NGS data
- Data analysis services deliver results that go beyond the routine by combining cutting edge algorithms and tools from both open source and commercial solutions
- Our data visualization and presentation solutions present the results in specific biological contexts, with information from our proprietary curated databases agricultural, pharmaceutical, health and veterinary fields

Decoding for knowledge discovery

Our Vision

Bioinformatics

Genomic
Technology

Information
Technology

Plants



- ◆ Improved crop yields
- ◆ Genomic characterization and trait identification

Microbial



- ◆ Microbiome analysis
- ◆ Modulation of host microbiome to prevent/ treat diseases

Animals



- ◆ Improved milk, meat yields
- ◆ Genomic characterization and trait identification

Human



- ◆ Better diagnostics
- ◆ Better drugs
- ◆ Better vaccines

Our Eminence

Our expertise in the Life Sciences and Genomics space is iconic. We have published several peer reviewed publications and hold numerous IP in this domain



Independent Origin of Life

Authored by Periannan Senapathy, this book explains a new theory of spontaneous origin of complex life forms from pre-biotic chemistry supported by modern genome data



US Patent No:7691614

Method of Genome-Wide Nucleic Acid Fingerprinting of Functional Regions(Aug 2009)



Publications on the Origin of Biological Information

Over 5 leading publications explaining the enigma behind the origin of life based on modern genome data



US Patent No:6368834

PCR genome walking with synthetic primer (Aug 2002)



Publications on the unique databases and cutting edge biological tools

5-6 leading publications in peer reviewed journals, including EuSplice, ExDom, AspAlt and RoBuST.



US Patent No:6846626

Method for Amplifying Sequences from Unknown DNA (Jan 2005). Also, Indian application #IN/PCT/2002/00334/DE and European application #00959799.0

Why Genome

Clearly Genome has expertise in taking up turnkey, end-to-end solution development. Solutions based on customer requirements and tailored to meet their needs. Genome has the resources available in genomics, proteomics, molecular diagnostics and drug development. In 2005, Genome established International Center for Advanced Genomics and Proteomics to research and develop algorithms and bioinformatics product concepts. Genome offers a comprehensive range of solutions and is a one-stop shop for all bioinformatics needs from biology, computer science and information technology.



The Small Business Administration (SBA) 8(a) Sole Source vehicle enables agencies to engage in direct buy contracts with certified contractors.



This certification formally acknowledges that Genome International Corporation is an independent woman-owned company. The certification no **2005112300** includes a review of Genome International Corporation's professional, legal, and financial status



GSAIT Schedule 70 Contract

GIC's GSAIT 70 Contract Number is **GS-35F-0473W**

Decoding for knowledge discovery
