

R&D, Genomics

Delhi | Full Time | Chief Scientist

Our World Needs Your Help!

About 800mn people went to bed hungry today. Approximately, 700mn people fell ill this year because of eating tainted food. And about 2bn people suffer from micro-nutrient deficiency. This in a world of 7.8bn people. By 2050, there will be 10bn of us! We radically need to transform our food production system – grow more & grow better without costing our Planet! Absolute, does just that.

Absolute:

Absolute is a path-breaking Plant bioscience & Frontier Digital Ag-Tech Company on a mission to **Build a Better World - for People, For Planet!** It aims to do so by improving farmer profitability, environmental sustainability & Consumer Health.

Absolute has been developing groundbreaking plant-science IP through years of Deep R&D intersecting Plant Biology, Microbiology, Hydrodynamics, Artificial Intelligence & Engineering. This enables Absolute growers to radically Better Yields, Grade, Flavor & Nutrition across diverse plantations - Open Farms, Greenhouses & Vertical Farms. All this while being an Environmental Champion exponentially reducing carbon footprint & the need for any synthetic pesticide or chemicals.

At Absolute, we believe that food has enormous potential in transforming the health of nations, communities & our planet. Today, Absolute operates the World's Largest network of Precision Ag Farms growing and serving unparalleled experiences to growers and food corporations across the World.

Backed by some of the most Marquee Global Investors & highly renowned figures in Food Ecosystem including Nadir Godrej- MD of Godrej Industries, Kamal Aggarwal- Promoter of Haldirams, Sanjiv Rangrass - CEO, ITC Agribusiness, leadership team at COFCO, Unilever & many more, Absolute is led by a team of Serial Entrepreneurs & Ex-Global Leaders from multiple Fortune 500 companies. Some of the World's leading Plant & Food Scientists from Stanford, Princeton, Univ. of Cambridge, Wageningen & Tel Aviv have also been instrumental in Absolute's journey so far!

Job Description:

- Develop and maintain the pipelines for targeted sequencing, shotgun metagenomics, and whole genome assembly.
- Develop long-term genomic strategies to meet commercial needs and develop internal IP.
- Collaborate with the data science team to develop insights into the biography of soil born pathogens, biological makers of soil health, and the sensitivity and specificity of analytics built from genomic datasets.
- Advise ideal targeted metrics for run assessment and data quality.
- Collaborate cross-functionally with a variety of teams, working closely with scientist, engineers, and product managers to inform and prioritize product enhancements

Requirements:

- PhD in a relevant scientific discipline with a minimum of 2 years of relevant postdoc or industry experience.
- Strong programming skills in Python, as well as comfort in command line tools with good software development habits.
- Broad knowledge of NSG analysis tools and methods, including classification tools and databases or classification pipelines, preferably for commercial pipelines and/or soils systems.
- Deep knowledge of high- throughput sequencing, next generation sequencing and computational genomics.

- Demonstrated expertise in microbiome characterization and computational analysis of microbial populations.
- Experience with genome assembly algorithms and latest sequencing technologies.
- Strong written and oral communication.

Preferred Skills

- Experience with relational databases and SQL. AWS or GCP
- ML techniques as applied in computational genomics such as hierarchical clustering, Bayesian matching algorithms, SVMs, HMMs and dimensional reduction.
- Experience in metagenomic and population level analyses