



Research Scientist – Yeast Innovation

Renaissance BioScience Corp. is a global, innovative, solution-based life sciences company. We research and develop a variety of yeast-based platform technologies to solve industrial efficiency and consumer health problems in the food, beverage, alcohol, biofuel and pharmaceutical industries.

To help build our leading research and development team, we aim to hire smart people who are self-starters and results driven. If you are a team player looking for an opportunity to grow your career in a fast-paced life sciences company, consider applying for the opportunity below today.

Position Summary

Do you want to be part of a team that innovates yeast solutions for beer, wine, food, and beyond...? Are you someone who likes to work in a fast paced environment, thrives on multitasking and enjoys helping others?

Renaissance is looking for a focused and detail orientated **Research Scientist** to join our Research Team. This role will be based out of our offices located on the University of British Columbia's main campus, in beautiful Vancouver, BC.

Under the direction of the Lead Research Scientist – Yeast Innovation, the **Research Scientist** will be responsible for independently designing and executing novel yeast research projects in support of RBSC's Yeast Innovation group and advanced strain development efforts. Currently, this role focuses on activities surrounding yeast breeding and selection, including the characterization of new and established yeast, using novel selection and screening methods including selective breeding and adaptive evolution.

This role provides the opportunity to research and innovate an organism that has a massive impact on multiple industries. This research forms a key component of our strain development pipeline for creating novel yeast strains for the food and beverage and other industries.

Our ideal candidate is an independent thinker that thrives on detailed problem solving.

Responsibilities Include, but are not limited to:

- Conducts yeast genetics, microbiology, and molecular biology focused experiments including:
 - Yeast hybridization and selective breeding using a micromanipulator
 - Yeast variant phenotypic screening using a variety of molecular biology and microbiological methods including PCR, colony PCR, quantitative PCR, dilution plating, growth assays, basic wet chemistry, colorimetric assays, etc.
 - Yeast and bacterial propagation using sterile technique
- Conducts other research experiments, as necessary and within limits of expertise, in other disciplines such as:
 - Adaptive laboratory evolution of yeast through continuous culture and mutagenesis
 - Yeast transformation and screening
 - DNA construct cloning (PCR, construct construction, plasmid purification, screening)
 - Advanced gene editing techniques including CRISPR/Cas9

Uses professional concepts, scientific and otherwise, in accordance with RBSC's policies, procedures, and goals to complete scientific experiments to solve complex research and development problems in creative and effective ways.

- Applies the scientific method to problem solving, including maintaining a command of the current relevant scientific literature
- Develops research concepts/ideas into actionable experimental plans designed to test ideas/hypotheses and/or develop proof-of-concepts/prototypes
- Determines methods and procedures on new assignments
- Critically evaluates validity and utility of experiments to help refine experimental objectives and workflows



- Records, compiles and critically analyzes research results/data.
- Mentors and/or supervises junior research staff.
 - Develops junior scientific staff by teaching scientific principles and experimental techniques.
 - Ensures required experiments/work is being conducted efficiently and accurately.
- Independently prepares reports and presents to senior personnel, as requested.
- Independently designs and develops experiments and SOP protocols, with the assistance of senior staff.
- Participates in regular laboratory meetings, and periodically presents recent results/data.
- Develops new assays and experimental techniques based on literature research, with the assistance of supervisors.
- Collaborates with senior scientific staff to assist in the development and direction of research goals. and projects.
- Contributes as a team member to all areas of RBSC business.
- Updates senior scientific staff on progress to assist in the achievement of research goals and completion of projects.
- Additional duties, as required.

Education & Experience Required:

- PhD in microbiology, genetics, biochemistry, molecular biology, or similar field and 5+ years professional experience, preferably working with yeast; Or the equivalent MSc and 7+ years experience
- Experience using a micromanipulator for spore/tetrad dissection and performing yeast breeding experiments is an asset.
- Professional experience with phenotypic characterization and screening of microorganisms, preferably yeast is an asset
- Experience and knowledge in yeast genetics, physiology and cell biology, with a focus on related experimental techniques is an asset
- Experience and knowledge of microbiology, molecular biology, genetics, and microbial fermentation scientific principles and concepts related to the role is an asset.
- Working knowledge of industrial yeast production and commercialization of yeast IP technologies is an asset.
- Demonstrated technical proficiency, scientific creativity, collaboration with others, and independent thought. Works independently and requires little supervision.
- Demonstrated ability to effectively communicate in English; clearly express ideas in written and oral communications. Regularly updates supervisor. Synthesizes experimental results into actionable summaries for decision-making.
- Demonstrated ability to critically analyze and present relevant data with statistics and controls. Proposes and develops next steps.
- Demonstrated ability to exercise judgment within broadly defined practices and policies in selecting methods, techniques and evaluation criteria for obtaining results.
- Demonstrated problem solving attitude; including troubleshooting experimental protocols to develop new and/or optimize existing protocols.
- Demonstrated ability to troubleshoot and complete experiments and analyze final results/data from such experiments. Develops project scope from project outlines.
- Demonstrated ability to prioritize workload and allocate time/resources accordingly for assigned research, and the research of those under your supervision.
- Demonstrated ability guide and mentor junior staff on policies, SOPs, GLP, and instructions.
- Demonstrated ability to take detailed notes and maintain excellent records of experiment data in an organized matter (written and electronic). Responsible for validating research lab books for those under your supervision. Critically assesses experiment data and provides feedback for continuous improvement.
- Demonstrated ability to work well independently and in a team setting; strong self-starter work ethic/attitude.
- Demonstrated ability to adapt and thrive in an entrepreneurial, growing, and changing work environment.



- Demonstrated success effectively supervising and mentoring junior scientific staff to accomplish goals and celebrate their success.
- Demonstrated ability to develop and manage a project budget.

Position Details

This is a full-time role. General workdays are Monday to Friday, with the requirement for flexibility to work weekends (for scientific experiments), when needed.

How to Apply

Please email your resume and a brief cover letter indicating why you feel you are a fit for this role to careers@renaissancebioscience.com. Please indicate **Research Scientist – Yeast Innovation** in the subject line.

We would like to thank all applicants who apply. Only those selected for an interview will be contacted. No phone calls, thank you.

About Renaissance BioScience Corp.

Renaissance BioScience Corp. is a privately held, global, industry leading yeast technology company based in Vancouver, Canada. Renaissance develops yeast-based platform technologies to solve industrial efficiency and consumer health problems in the food, beverage, alcohol, biofuel and pharmaceutical industries. The wholly owned commercial subsidiaries of Renaissance BioScience Corp. include Renaissance Yeast Inc., which commercializes H₂S-preventing wine yeast; Renaissance Ingredients Inc., which commercializes acrylamide-reducing baker's yeast; and Bright Brewers Yeast Inc., which commercializes beer yeast technologies. Detailed information about the Renaissance group of companies can be accessed at renaissancebioscience.com.