

Process Development Engineer

EMPLOYMENT

Full-time, permanent

LOCATION

On-site, Biopolis, Singapore

LEVEL

Up to 5 years' experience

ABOUT ARROWBIOME

ArrowBiome is a Singapore biotechnology company developing science-based solutions for microbiome management. We combine biotechnology, formulation science and disciplined process development to translate laboratory research into reproducible, scalable products.

THE ROLE

We are seeking a Process Development Engineer to support in-house laboratory manufacturing and process development, spanning a biologically active ingredient process and a particle-based formulation process. The immediate priority is reliable, reproducible and well-documented in-house batches; as the process matures, the role extends into optimisation, scale-up and manufacturing-transfer support.

KEY RESPONSIBILITIES

Now — In-House Manufacturing & Process Development

- Execute laboratory-scale formulation and particle-processing activities per approved procedures and safety requirements.
- Run routine batches safely and reproducibly, including multi-day experiments, with increasing independence.
- Perform physicochemical characterisation and in-process testing (moisture, particle size/distribution, microscopy, viscosity).
- Maintain lab equipment, calibration schedules and consumables; own EHS practice including solvent/powder handling and risk assessments.
- Troubleshoot routine issues within authorised limits and escalate deviations promptly.

As We Scale — Optimisation & Transfer Readiness

- Maintain accurate batch records, equipment logs and deviation documentation; support batch-record and change-control practice.
- Produce structured, traceable process records comparable across batches, with quantitative acceptance criteria.
- Support approved optimisation and reproducibility studies, and contribute to specifications for future scale-up and transfer.

WHAT WE ARE LOOKING FOR

Required

- Bachelor's degree in Chemistry, Polymer/Materials Science, Chemical Engineering, Pharmaceutical or Biological Sciences, or related field.
- Up to 5 years' relevant lab experience (strong internship/final-year project work considered).
- Experience in protein production (expression & purification), or a strong foundation in it.
- Sound fundamentals in particles, colloids, dispersions or formulation.
- Careful experimental technique; disciplined record-keeping and safe solvent/chemical handling.

Strong Advantage

- Particle or physicochemical characterisation methods, with understanding of resolution limits.
- Protein production in an industrial, pilot or scale-up setting.
- Filtration, purification, concentration or drying operations.
- Repeat-batch operations or pilot-scale manufacturing; ISO-/GMP-style documentation.
- Electronic lab notebooks, structured data tools, or basic statistics/DOE.

Fair Consideration & How to Apply: ArrowBiome assesses all candidates fairly on job-related qualifications, skills, experience and ability to perform the role, in line with Singapore's Fair Consideration Framework. Send your CV and a short note on your most relevant laboratory experience to careers@arrowbiome.com, subject line "Application – Process Development Engineer".

Employment is subject to valid authorisation to work in Singapore and satisfactory reference checks. Remuneration, leave, benefits and other terms are governed by the final employment contract, company policy and applicable Singapore law. This advertisement is not an employment contract; duties may be reasonably adjusted to meet operational requirements. Applicant privacy: personal data submitted is collected, used and disclosed only as necessary to assess your application and meet legal obligations — please do not include NRIC number, date of birth, marital/family status, photographs or medical information at this stage.