

FATIKHAH RACHMAH FAUZIYYAH

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SUMMARY

Bioprocess Engineering graduate with hands-on experience in microbiology, laboratory-scale bioprocessing, and quality control. Experienced in aseptic techniques, microbiological analysis, enzymatic conversion, laboratory procedures, and analytical testing, with academic exposure to bioprocess technology. Knowledgeable in GMP principles, with strong learning agility, attention to detail, proactive approach to problem-solving, and resilient.

Career interests: Quality Assurance | Quality Control | R&D | Bioprocess Engineering | Production

EDUCATION

Bachelor of Bioprocess Engineering - Universitas Brawijaya

2022 - 2026

GPA : 3.81 / 4.00

Relevant coursework : Bioprocess Technology, Microbiology, Bioreactor & fermentation, Bioprocess Engineering, Process Control.

PROFESSIONAL EXPERIENCES

QC staff Intern at PT Sinar Raflesia Selatan

Jan 2025 - Feb 2025

- Conducted routine **quality control testing** on raw materials and finished products, ensuring compliance with SOP and supporting consistent product quality.
- Performed physical and chemical analysis including **pH testing, viscosity measurement, and specific gravity calculation** to evaluate product quality and stability.
- Recorded and reviewed test result accurately to support quality documentation & laboratory traceability
- Maintained laboratory cleanliness and ensured proper handling of samples and testing equipment in accordance with established laboratory procedures.

Laboratory Assistant - Biomaterials

Aug 2024 - Des 2024

- Assisted in biomaterial laboratory activities focusing on the synthesis of bioplastic and biomass conversion into value-added products such as biodiesel and bioethanol.
- Assisted students in laboratory activities and provided guidance on experimental procedures, equipment use, and proper laboratory practices.
- Applied **good laboratory practices** to maintained proper experimental conditions to ensure reliable and consistent results for experimental report.

Laboratory Assistant - Essential Microbiology

Feb 2024 - May 2024

- Applied aseptic handling, sampling, contamination control. microbial handling, and analysis techniques in laboratory activities
- Guided students in applying aseptic techniques and sample preparation to maintain sterile conditions and minimize contamination risks.
- Performed and assisted **microbiological testing** including gram staining, microscopy procedure, and bacterial enumeration to support accurate laboratory result.
- Reviewed and evaluated practican's laboratory reports and experimental data to ensure accurate calculations and proper interpretation of experimental findings.

CERTIFICATIONS

- **GMP** (Good Manufacturing Practices) Makin Ahli | 2026
- **HACCP** (Hazard Analysis and Critical Control Point) Makin Ahli | 2026
- **ISO 22000:2018** (Food Safety Management System) Makin Ahli | 2026
- **FSSC 22000 Version 7.0** (Food Safety System Certification) Makin Ahli | 2026
- **Quality Assurance & Quality Control** in Food Industry Makin Ahli | 2026
- **Brawijaya English Proficiency Test (BEPT)** Universitas Brawijaya | 2025
Score: 600

UNDERGRADUATE RESEARCH

- Conducted laboratory-scale synthesis of D-allulose from HFCS-55 through enzymatic conversion using D-psicose 3-epimerase (DPEase) produced by *Agrobacterium tumefaciens*.
- prepared and handled **biological/ process samples** while maintaining consistent laboratory conditions and procedures.
- Using **HPLC** and **FTIR** analyses for process/ product characterization, including sample preparation, dilution, and data interpretation.
- **Analyzed experimental data**, calculated product yield, and evaluated differences between treatment groups using statistical analysis.
- Maintained laboratory procedures in accordance with **good laboratory practices**.

ORGANIZATIONAL EXPERIENCE

Administrative BESA-UB 2025

April 2025 - Des 2025

- Supported organizational administration, database management, and coordination across departments while ensuring compliance with established procedures.

Himpunan Mahasiswa Keteknikan Pertanian (HIMATETA)

Feb 2023 - Des 2024

- Led “Bengkel Inovasi” project as **Project Leader**, coordinated a team and managed end-to-end event execution for 50+ participants, ensured successful and well-organized event delivery.
- Collaborated with cross-functional teams to support organizational programs, demonstrating teamwork, leadership, and effective communication.

TECHNICAL SKILLS

Bioprocess & Microbiology

- Microbial handling & aseptic technique
- Microbial analysis
- Cell/ microbial cultivation
- Bioprocess principles
- Bioreactor fundamentals
- Sterilization principles

Laboratory Techniques

- Chemical & physical measurement
- Sample preparation & dilution
- HPLC and FTIR analysis

Tools & Software

- Microsoft Excel (data processing & basic analysis)
- Microsoft Office (Word, PowerPoint)