

MUHAMMAD ROHID AL HANIM

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Kabupaten Tangerang

Graduate of Chemical Industrial Technology, specializing in Biotechnology from Padjadjaran University with work and practical experience in biotechnology laboratory and production environments. Accustomed to working carefully, following work procedures, aseptic techniques, and ensuring processes run according to standards. Has experience as a production for antibodies and operating various laboratory equipment such as gel electrophoresis, microscopes, centrifuges, PCR, electroporators, and other analytical tools. Understands the basics of Good Manufacturing Practice (GMP), process documentation, and is accustomed to working in a disciplined manner both individually and in teams.

Education Level

Universitas Padjadjaran - Sumedang

Aug 2021 - Aug 2025

Diploma in Bachelor of Applied Science Chemical Industrial Technology, 3.70/4.00

- Thesis: Expression Of IgG ANTI-HER2 (Trastuzumab) In Pichia pastoris Hosts and Testing Of It's Interaction With Protein L Using A Lateral Flow Assay.
- Projects: Development and design of rapid tests for detecting pork in food, ANTI-HER2 for immunohistochemistry reagents (2 mg/mL), optimization of purification using affinity chromatography, and synthesis of RGD PEPTIDE (Arginine - Glycine - Aspartic Acid) for cosmetics.
- Teaching Assitance: Supervising 5 students in a recombinant protein production practicum, including experiment planning, implementation, and data analysis.

Work Experiences

PT Cakrawala Indopac - Tangerang

Oct 2025 - Present

Technical Sales Engineer

Manufacturing for Chemical Water Treatment in East Java and Banten

- Successfully negotiated and secured a long-term supply contract with an estimated volume of $\pm 2,300$ tons/month.
- Conduct market mapping and analyze potential business opportunities to support customer acquisition and revenue growth.
- Identify client needs and provide solution based product recommendations aligned with operational and commercial objectives.
- Prepare commercial proposals and pricing strategies based on customer demand, competitor analysis, and market conditions.

Pusat Riset Bioteknologi dan Bioinformatika - Bandung

Feb 2024 - Aug 2024

Research and Development Intern

Molecular Biotechnology Research Institute

- Operating various biotechnology laboratory instruments, including PCR, concentrator plus, gel electrophoresis, electroporator, and other analytical equipment
- Successfully optimized cell transformation using two different treatments and obtained significant results
- Optimized recombinant protein production through five key parameters (media, phenotype, inducer concentration, and culture treatment) to improve process effectiveness.
- Achieved optimal recombinant protein production of up to 2 mg/mL, demonstrating productivity improvement.

Pusat Riset Bioteknologi dan Bioinformatika - Bandung

Aug 2023 - Sep 2023

Production Intern

Molecular Biotechnology Research Institute

- Production of VP2 antigen as a candidate vaccine for IBDV with a yield of 27 mg/mL.
- Helps optimize solution buffer and refolding protocols to increase efficiency by up to ~70% compared to previous ones.
- Purification of protein using ÄKTA™ chromatography with a yield of 10 mg/mL.

Organisational Experience

Ikatan Keluarga Mahasiswa Unpad Banyuwangi - Sumedang

Sep 2024 - Mar 2025

Chairman Of The Association

- Coordinated and supported collaborations with partner universities to plan and execute campus tour activities, strengthening inter institutional relationships and outreach programs.
- Executed outreach roadshow programs across 7 high schools in Banyuwangi by delivering presentations and engaging with school representatives to introduce educational programs.

Badan Eksekutif Mahasiswa Fakultas Matematika dan Ilmu Pengetahuan Alam - Sumedang

Apr 2023 - Jan 2024

Head of External Relations Department

- Supported and coordinated partnerships with 25+ external organizations, including media partners and educational institutions, to support communication and promotional activities.
- Planning and executing two large-scale comparative study programs involving 250+ participants in collaboration with 3 partner institutions.
- Coordinated an industrial visit at PT Sido Muncul Tbk involving more than 50 participants by liaising with company representatives and managing event logistics.
- Worked closely with alumni partners to support the execution of approximately 30 webinar sessions "Podcast Cinta Mipa" focused on career development and professional insights.

Himpunan Mahasiswa Teknologi Industri Kimia - Sumedang

Feb 2023 - Dec 2023

Head Of The Creative Economy Division

- Organized and facilitated an entrepreneurship program for 25+ participants, focusing on basic business planning, promotion, and sales execution.
- Supported sales activities that resulted in the sale of 120+ merchandise units through basic marketing and promotional initiatives.
- Developed and published a monthly entrepreneurship newsletter to support communication and engagement within the student community.
- Recognized as a Finalist of the 2023 MIPA Award in the "Best Entrepreneurship Field" category for contributions to entrepreneurship initiatives.

Volunteer Pekan Ilmiah Mahasiswa Nasional 36 (PIMNAS) 2023 - Sumedang

Nov 2023 - Dec 2023

Liaison Officer

- Supported coordination of 10+ participants across multiple activities over 5 days, handling communication and issue resolution with various stakeholders.

Skills, Achievements & Other Experience

- **Soft Skills:** Attention to Detail, Discipline & Responsibility, Team Collaboration, Problem Solving, Adaptability, and Analytical Thinking
- **Laboratory and Analytical Skill:** Operation of laboratory equipment: Gel Electrophoresis, Microscope, Centrifuge, PCR, Electroporator, Concentrator Plus, and other analytical tools, Good Manufacturing Practice (GMP), Good Laboratory Practice (GLP), Aseptic Technique & Laboratory Safety, Process Monitoring & Process Optimization, Documentation & Reporting, Protein Purification & Bioprocess Workflow, SDS-PAGE & Protein Characterization, Experimental Handling & Sample Preparation, and Calibration & Verification of Measuring Instruments
- **Tools and Software:** Microsoft Office (Excel, Word, PowerPoint), Google Workspace, Basic Data Analysis (RStudio) And Creative Tools (Canva, Capcut)
- **Certificate (2023):** Competency certificate with competency qualification: Verify/Calibrate Measuring Instruments and Test Equipment issued by the Badan Nasional Sertifikasi Profesi in 2023
- **Certificate (2025):** Sales & Marketing Independent Private Consultant / IPC by Oki Intan
- **Webinars Attended:** Speakers at the event "Himatologika Berani Berkarir (HIRARKI) 2025"