

PROFIL

Putri Antika Yusniasari is a Pharmacist and graduate of Universitas Airlangga with experience in pharmaceutical formulation development. She has experience in developing and optimizing formulations, conducting preformulation studies, and supporting scale-up and technology transfer activities for various dosage forms including creams, syrups, eye drops, and tablets. She is skilled in applying Quality by Design (QbD) principles and collaborating with cross-functional teams to support efficient pharmaceutical product development.

EDUCATION

Bachelor of Pharmacy

Universitas Airlangga

IPK: 3.47/ 4.00

- Most Outstanding Graduate Faculty of Pharmacy, Universitas Airlangga (2024)
- Awardee of Beasiswa Van Deventer Maas Indonesia (2021-2024)
- Part of The Ambassador Faculty Pharmacy, Universitas Airlangga (2023)

Pharmacist Profession Education

Universitas Airlangga

IPK: 3.72/4.00

WORK EXPERIENCE

PT Erlangga Edi Laboratories (ERELA) - Formulation Development R&D Supervisor

Salatiga | Central Java, Indonesia

November 2025 - Now

- Designed and conducted laboratory trials for formulation and process development of pharmaceutical products, including creams, syrups, eye drops, and tablets.
- Prepared formulation and process development documents in accordance with pharmaceutical development requirements (preformulation study reports, R&D reports, test and packaging request forms, development summaries, process validation protocols and reports, etc.).
- Performed preformulation studies using a Quality by Design (QbD) approach to support robust formulation development.
- Conducted formulation trials from laboratory scale to pilot scale and supported scale-up activities.
- Assisted in technology transfer activities to the production facility, ensuring a smooth transition from development to manufacturing.
- Participated in process trials and validation activities at the production facility to ensure product quality and process consistency.
- Performed laboratory experiments, supervised formulation staff, and reviewed experimental data and test results.
- Experienced in operating 25+ laboratory instruments, including Fluid Bed Dryer, High Shear Mixer (Silverson), viscometer, and pH meter.
- Understood product dossiers and regulatory submission processes to ensure formulation development, technical data, and supporting documents comply with regulations.
- Understood production equipment to ensure product development can be accurately transferred to production scale, maintaining consistency, quality standards, and regulatory compliance.
- Collaborated actively with Analytical Development, Regulatory Affairs, Packaging Development, and Production teams to ensure efficient product development and compliance.
- Led the revision of Standard Operating Procedures (SOP) and Work Instructions for laboratory equipment and machines.
- Served as a member of the 5R (Ringkas, Rapi, Resik, Rawat, Rajin) workplace organization team, responsible for documentation, monitoring implementation, and maintaining compliance with workplace organization standards.

PT. Bayer Indonesia Cimanggis Plant - Pharmacist Professional Internship Program

Depok | West Java, Indonesia

January - February 2025

- Supervised production processes including weighing, mixing, and granulation, while ensuring compliance with Critical Quality Attributes (CQA), Critical Material Attributes (CMA), and Critical Process Parameters (CPP).
- Involved in Out-of-Specification (OOS) investigations and CAPA processes to ensure product quality and process improvements in line with regulatory compliance.
- Participated in reviewing and optimizing Master Batch Records (MBRs) to enhance documentation precision and workflow for formulations.
- Contributed to the development of Failure Mode and Effects Analysis (FMEA) and material flow assessments to identify and mitigate risks in line with GMP.
- Conducted GAP analyses in cleaning procedures, comparing current practices with SOPs to uncover discrepancies and initiate corrective measures.
- Assisted in audit readiness activities and gained familiarity with external audit processes, including documentation management and regulatory inspections.
- Acquired knowledge of Good Manufacturing Practices (GMP), CPOB, Halal assurance system (SJH), Good Laboratory Practices (GLP), and the fundamentals of ISO 17025.

LEADERSHIP AND ORGANIZATIONAL EXPERIENCES

Staff Pharmacy Ambassadors Association of Universitas Airlangga

August 2022 - August 2023

- Actively promoted the Faculty of Pharmacy through campus visits, education fairs, and faculty events organized by the student executive board (BEM).
- Represented the faculty in interdepartmental and intercampus events, helping expand institutional relations and visibility.
- Delivered a presentation as guest speaker to high school students from 5 different schools (100+ participants each) and contributed to the success of campus expo by leading the most interactive booth.
- Supervised health promotion campaigns reaching 3 elementary schools and delivered engaging educational content to young audiences

Staff Department of Strategic Studies Student Executive Abroad (BEM)

January 2022 - January 2023

- Organized and led the seminar program by delegating responsibilities, managing timelines, and ensuring the success of events attended by up to 200 participants.
- Contributed to the success of other key programs, including pharmacy-related education campaigns on social media and a national pharmacy seminar with 1,000+ participants from across Indonesia.
- Coordinated with external stakeholders and institutions to support program outreach, speaker engagement, and audience participation.

Event Division Coordinator Community Development Faculty of Pharmacy

April 2021 - April 2023

- Served as Event Coordinator for the 2023 Community Development Program, successfully managing an online seminar (100+ participants) and medical check-up (50 attendees).
- Supervised a team of 15 committee members, coordinated schedules, logistics, and program flow, and delegated tasks effectively.
- Resolved on-site issues and ensured smooth execution of 5+ campus events focused on health education and community outreach.

SKILL

- Language : Indonesia (native), English (intermediate)
- Technical: Pharmaceutical formulation development, Preformulation studies (QbD), Laboratory experiment and data analysis, operation of laboratory equipment, process validation and optimization
- Software Skills: Microsoft Office (word, excel, power point), Google workspace (gdoc, gsheets, gslides) and Basic Data Analysis using IBM SPSS
- Soft Skills: Problem solving, analytical thinking, team coordination and leadership, Public speaking

PROJECT AND RESEARCH EXPERIENCE

Topical Inhibition Test of IL-1 β Cytokine from 70% Ethanol Extract Gel of Yellow Root Plant Stem (*Arcangelisia flava* (L.) Merr.) (Thesis)

- Performed literature review to guide formulation strategy, experimental design, and applied Quality by Design (QbD) principles in planning.
- Conducted characterization of active ingredients and excipients to determine compatibility, stability, and suitability for formulation.
- Selected the appropriate pharmaceutical dosage form and justified formulation design based on biopharmaceutical and physicochemical properties.
- Formulated anti-inflammatory gel and evaluated key characteristics (pH, viscosity, homogeneity, spreadability, stability).
- Performed in-vivo testing and used a pH meter, viscometer, particle size analyzer, and ELISA kit to support analysis.
- Conducted formulation testing, analyzed outcomes, and optimized formulation parameters to achieve target product quality profile.
- Maintained GLP-based documentation and collaborated with supervisors to troubleshoot formulation issues.

Particle Size and In Vitro Correlation of Transdermal Patch Development Based on Nanophytosomes of Leaf Ethanol Extract of Kenikir (*Cosmos caudatus*) as Prevention Efforts Complication Dislipid

- Conducted microwave-assisted extraction (MAE) to obtain active compounds from kenikir (*Cosmos caudatus*) leaves efficiently.
- Developed a herbal-based transdermal patch formulation using nanophytosomes and conducted in-vitro drug release testing.
- Improved particle size distribution and release profile, contributing to enhanced bioavailability potential for antidyslipidemia use.

ACHIEVEMENT

- Honorable Mention Most Outstanding Student Faculty of Pharmacy, Universitas Airlangga (2023)
- Semi Finals DRPI-JSEA International Research Competition from American Association of Pharmaceutical Scientist (2023)
- Best Presentation at International Science and Technology Colloquium Malasiya (2023)
- Winner and Best Presenter National Indonesia Student Research Weeks, Universitas Mataram (2023)
- 2nd Winner National Natural Development Case Study Faculty of Pharmacy, Universitas Surabaya (2023)
- Winner and Best Presenter National Video Contest Faculty of Pharmacy, Universitas Surabaya (2023)
- Silver Medals and Best Papper Lombok National Essay Competition, Science Innovation Space (2023)
- 2nd Winner Pharmaceutical Essay Competition, Universitas Jember (2021)

CERTIFICATION

- Talks on Campus: Advances in Life Science for Your Research - PT Merck Chemicals and Life Sciences (2025)
- Research and Development (RND) in Pharmaceutical Industry Training
- Makin Ahli (2025) Farmasi Halal 2026
- LPPOM (2025) Good Laboratory Practice (GLP) Training - Makin Ahli (2025)