

AilumiQ Job Description: JD0007 Quantum Dot Assistant Chemical Engineer (TVC One-Year Contract)

Location: Taipei, Taiwan

Employment Type: Full-time (One-Year Contract)

About AilumiQ:

AilumiQ is an innovative deep-tech startup dedicated to revolutionizing the production of advanced materials, such as next-generation quantum dots. We've developed an automated platform powered by AI to achieve exceptional precision, efficiency, and scalability in material synthesis. Our mission is to overcome the limitations of traditional manufacturing methods and unlock the full potential of quantum dot technology.

Job Summary:

We are seeking a motivated and detail-oriented **Quantum Dot Assistant Chemical Engineer** to join our team in Taipei, Taiwan. In this role, you will support the preparation and handling of quantum dot precursors, assist in synthesis operations, and perform key post-synthesis processes such as centrifugation and purification. This position provides hands-on experience in advanced nanomaterial processing and exposure to AI-driven automation in chemical synthesis.

Responsibilities:

- Assist in the preparation and mixing of QD precursors according to standard operating procedures.
- Operate and maintain centrifuges and related equipment for QD purification and separation.
- Support synthesis experiments, ensuring accurate reagent measurements and safe handling of chemicals.
- Assist senior chemists in optimizing precursor formulations and post-synthesis workflows.
- Perform routine cleaning and maintenance of laboratory equipment.
- Follow all Environmental, Health, and Safety (EHS) procedures to maintain a safe laboratory environment.

Required Skills and Experience:

- Background in Chemistry, Chemical Engineering or a related field.
- Basic knowledge of wet-chemical laboratory practices and materials synthesis.
- Experience with centrifugation, filtration, or precipitation techniques in a laboratory setting.

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- Strong attention to detail and commitment to quality and safety.
- Ability to follow SOPs, record experimental data, and work collaboratively with senior team members.

Preferred Skills and Experience:

- Hands-on experience with quantum dot or nanomaterial synthesis.
- Familiarity with glove box or inert atmosphere operations.
- Experience in handling air/moisture-sensitive precursors.
- Knowledge of basic characterization tools (UV-Vis, PL, or TEM).

Benefits:

At AilumiQ, we offer a comprehensive and supportive benefits package designed to empower our team members:

Statutory Benefits:

- Maternity/Paternity Leave
- Family Care Leave
- Labor Insurance
- Health Insurance
- Accompanying Spouse's Maternity Leave
- Special Leave (Annual Leave)
- Parental Leave
- Menstrual Leave
- Labor Pension Fund Contribution
- Prenatal Check-up Leave
- Epidemic Prevention Leave
- Employee Health Check-up
- Weekends Off

Other Benefits:

- Employee Stock Options
- Performance-Based Bonus (Year-End Bonus)
- Snack Bar & Coffee Station
- Paid Travel Leave
- Paid Sick Leave (Better than Labor Standards Act)
- Employee Training Subsidies
- Department Gatherings
- Flexible Remote/Work-From-Home Options
- Open Office Environment for Easy Team Integration

Enhanced Benefits for Full-Time Employees:

- Guaranteed 14 Days of Annual Leave (pro-rated based on time of employment), encouraging work-life balance.
- Flexible Working Hours to accommodate family care needs.
- Annual External Training Budget to support continuous skill development.
- Monthly Welfare Allowance of NT\$2,000 for leisure activities (massage, beauty, dining, travel, etc.).
- Employee Laptop Subsidy and Health Check-up Subsidy.

To Apply:

Please submit your resume and cover letter detailing your relevant experience, particularly with optical systems, and why you are interested in joining AilumiQ to hire@ailumiq.com. We look forward to hearing from you.