

## **Full Time R&D Chemical Engineer - Tokyo Ohka Kogyo America, Inc.**

**Location:** TOK America, Inc.

4600 NE Brookwood PKWY, Hillsboro OR, 97124

TOK America is seeking a chemical engineer to work on the development of material that meets customer requirements utilizing lab instrument and equipment. Under general supervision, use experience and judgment to plan and accomplish goals. Maintenance of general paperwork and quality documents

TOK America, Inc. plays an extremely important part, serving as the supply hub of semiconductor photoresists and high-purity chemical agents for the customers in United States and Europe. We are a wholly owned subsidiary of a world leader in advanced chemical formulations. Our company has consistently pursued programs of research and development of superior new technologies and new technical methodologies based on the following management principles: “continue efforts to enhance technology,” “raise the quality levels of products,” “contribute to society” and “create a frank and open-minded business culture”.

### **ESSENTIAL JOB FUNCTIONS:**

The essential functions of this position require prioritizing and completing all assigned tasks in a timely and efficient manner, adjusting for changing priorities and availability of resources, and demonstrating initiative in identifying additional job-related tasks to be completed when time permits. The amount of time performing each function may vary day-to-day. All duties shall be performed in an efficient and professional manner in accordance with the company policies and under the direct supervision of a designated supervisor.

1. Inspect and assess job site conditions and equipment to identify hazards or malfunctions, ensuring safe and efficient operations.
2. Operate computers and office technology with high accuracy and judgment to manage and present business documents and data.
3. Analyze and interpret complex data quickly and accurately, communicating technical information clearly to various audiences.
4. Adherence to corporate, State and Federal regulations and guidelines when handling hazardous materials or when exposed to hazardous situations. Must adhere to departmental and corporate standard operating procedures, including the use of Personal Protective Equipment (PPE).

5. Conducts research and development of a specific formulation which meets the customer requirements.
6. Solves complex technical problems and recommends solutions.
7. Tests and analyses new formulations and/or raw materials on the customer wafers using analytical and performance equipment/instrument.
8. Establishes test methods for correlation with customer results.
9. Conduct performance demonstrations of new formulation with or without customer attendance at laboratory.
10. Documents and reports both internal and external technical data.
11. Reads and interprets patents, research articles, and developing documentation.
12. Communicates and collaborates with Research and Development team in TOK-Japan for aforementioned work.
13. Participates in external technical meeting with customer if necessary.
14. Obtains necessary data and documentation for scaling lab-level prototypes to mid/high volume manufacturing.
15. Creates documentation for chemicals for inventory and waste generated after testing or processing.
16. Provides custom manufacturing of chemical solutions for customers and internal evaluations.
17. Sets up lab instrument and equipment if necessary.
18. Provides support for the troubleshooting and maintenance for analytical and lab equipment and notifies the tool owner on any equipment repairs and malfunctions.
19. Conducts evaluation of new equipment and establishes the standards.
20. Assists in operations for new projects.
21. Pursues activities for continuous improvement related to ISO 9001 and ISO 14001.
22. Performs other related duties related to the smooth operation of the facility as required, including cleaning and housekeeping.
23. Assists in shipping management of samples and/or products.

24. Actively demonstrate high levels of employee engagement, coachability (e.g., receiving and incorporating business-related feedback and instruction with a positive and growth-oriented mindset) to achieve desired outcomes, and accountability for personal performance and its impact on others' ability to do their job well.

25. Perform other necessary duties and tasks as requested.

#### *Periodical*

Attending annual and/or quarterly refresher courses related to hazardous waste management and handling, general safety, quality management, and environmental management.

#### **SUPERVISION:**

*Receives:* Direct supervision is provided by the department supervisory team. (Team Leader, Manager, and Deputy General Manager). Completed work is reviewed for accuracy, completeness, and compliance with the established guidelines.

*Given:* Chemical Engineer supervises R&D technicians and participates in performing data analyses and research studies.

#### **Qualifications:**

- B.A. or B.S. in chemistry, physics, materials science, materials engineering, chemical engineering or relevant education. M.S. degree in chemistry, physics, materials science, materials engineering chemical engineering or relevant education is a plus.
- Minimum 3 years of working experience in chemical research & development or 1 year working experience in chemical research & development with M.S. degree and/or higher.
- Experience in semiconductor is plus
- Practical working knowledge of requirements for scale-up and manufacturing of new chemical products and processes is a plus.
- Previous laboratory experience and demonstrated understanding of concepts related to product development is a plus.
- Software proficiency in MS Office, proficiency in JMP is a plus.
- Strong background and sufficient experience in materials characterization using XPS, electrochemistry, XRF, ellipsometer, goniometer, zeta-potential analyzer, optical microscope, SEM, TEM/STEM, Electron Diffraction, and EDS

**Schedule:**

- Monday - Friday 8:00am - 5:00pm

**Compensation:**

- \$83,000/Year
- Medical, dental, and vision insurance - TOK pays 100% of the premiums for all employees
- 401(K) with company match
- Paid life insurance
- 15 paid Holidays
- Generous paid time off
- On-the-job training and skill development
- Employee assistance program

To apply, please send your resume or apply via indeed.

We welcome applicants from diverse backgrounds and look forward to meeting individuals who are passionate about culture, community, and customer service.

**To apply, please email your resume to:**

[mariah.johnstone@tokamerica.com](mailto:mariah.johnstone@tokamerica.com)

Subject: *Chemical Engineer Application*

Or

<https://www.indeed.com/job/chemical-engineer-japanese-bilingual-eb43f4ee45ac8c8a>

**Note:**

Employment is contingent upon a satisfactory background check and a pre-employment drug screening, including THC, in accordance with federal guidelines.

TOK America is an Equal Employment Opportunity Employer and complies with all applicable federal, state, and local nondiscrimination laws.

TOK America is an FMLA-qualified employer:

<https://www.dol.gov/agencies/whd/posters/fmla>

Know your rights: [https://www.eeoc.gov/sites/default/files/2023-06/22-088\\_EEOC\\_KnowYourRights6.12ScreenRdr.pdf](https://www.eeoc.gov/sites/default/files/2023-06/22-088_EEOC_KnowYourRights6.12ScreenRdr.pdf)

Polygraph Protection: <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/eppac.pdf>