

## ENABLING THE DIGITAL WORLD

Smartphones, computers, networks, self-driving cars, intelligent machines, the latest medical advances, renewable energy – the digital transformation makes our lives easier, safer, and more comfortable.

And we are at the center of it all: The world's leading technology companies manufacture their products with innovative solutions from ASMPT.

### **Sr. Manager of Advanced Technology - ASMPT NEXX**

**Location: Billerica, MA**

#### **Key Responsibilities**

ASMPT-NEXX products incorporate a diversity of mechanical, fluid, vacuum and automation subsystems working together to enable high speed wafer processing equipment.

As leader of the advanced technology engineering group, you will invent, design, specify, prototype, integrate and test novel systems and provide program management for the Alpha tool testing facility.

You will work with process experts to analyze process and wafer handling sub-elements and using computer and analytical models to optimize system design.

You will work with Business-Unit engineering and Business-Development groups to achieve successful time to market and total cost of deployment for new products.

#### **Responsibilities:**

- Manage engineers and scientists, enabling effective collaboration to invent and test improved subsystems for wet processing of Wafers and Panels.
- Combine literature review, engineering design and experimental testing in an iterative loop best practices in experimental methods.

**#1**

Largest hardware  
and software  
supplier for the  
electronics  
industry



2,000 high-tech  
patents



12,000 employees from  
many different cultures



Annual group sales:  
US\$ 2.49 billion

## ENABLING THE DIGITAL WORLD

- Drive the use of appropriate computer modeling with COMSOL, MATLAB, CFD and FEA codes guide design work.
- Drive integrated analysis of process performance and cost of ownership.
- Manage electrical, mechanical and controls engineers, enabling them to work effectively with process and software engineers on new product development.
- Lead development of hardware, automation, fluid and process sub-systems in automated semiconductor wet process tools, specifying system testing procedures from prototype through reliability analysis.
- Drive early-stage development of new tool platforms and major sub-systems, managing the project until it is transferred successfully into a business unit.
- Drive use of effective scheduling to ensure rapid concept improvement, prototype fabrication, and functional testing of sub-systems.
- Be a role model for other engineers—both in teamwork and quality of innovation delivered.
- Ensure best practices in design for performance, manufacturing, service and overall customer satisfaction.
- Manage the development of process requirements as expressed in PIDs and software specifications, review with software team and revise in timely manner in response to C&F and early phase testing.
- Work with patent counsel to draft and implement IP filings.



Active in over  
30 countries

### **Skills and Experience:**

- PhD in Mechanical or Chemical Engineering or Physics.
- 10 or more years of experience in the Semiconductor Equipment industry; familiarity with wet chemical processing equipment.
- Demonstrated leadership ability and management experience.
- Simulation using multi-physics analysis and CAD design expertise preferred.

# ASMPT

ENABLING THE DIGITAL WORLD

To apply for this position, please send us your resume to  
**[Jim.X.Prokop@asmpt.com](mailto:Jim.X.Prokop@asmpt.com)**

We are looking forward to hearing from you!

---