About ASM Technology Hong Kong Limited

ASM Pacific Technology Limited ("ASMPT") (HKG: 0522), as a global technology and market leader, develops and provides leading edge solutions and materials for semiconductor assembly and packaging industries, as well as surface mount technology solutions in a wide range of end-user markets including electronics, mobile communications, automotive, industrial, LED and solar energy. We consistently invest in R&D to provide customers with innovative and cost-efficient solutions that help them achieve higher productivity, greater reliability and enhanced quality. Over the past 40 years, through the dedicated efforts of our high caliber teams, we have successfully established an international marketing network and manufacturing operations in Hong Kong, Germany, Malaysia, Singapore and China (Shenzhen and Huizhou).

Join us if you share our vision **ENABLING THE DIGITAL WORLD** and core values **POWER**:

- **P**assion to be the #1 "Go to Partner"
- **O**wnership of actions and behaviors
- **W**in with our customers
- **E**xcellence in all that we do
- **R**espect for one and all

For more information on ASM and its products and services, please visit www.asmpacific.com

Job Title: (Senior) Embedded System Software Engineer

Responsibilities:

- Design, develop, debug and verify software for real-time embedded control applications

Requirements:

- MSc/BSc Degree in Computer Engineering / Computer Science / Software Engineering / Electronics or relevant disciplines
- Proficient in C/C++ programming language
- Knowledge in microcontroller, System on Chip, multi-layers programming model and basic concept in control strategy
- Knowledge in real-time operation system, multi-threading and object-oriented programming is an added advantage
- Fresh graduates are welcome

Interested parties, please submit your application with resume, certificate, transcripts and/or other references to hk.careers@asmpt.com.

Your preference will be taken into consideration; however, final assignments will be based on your qualification, competence and vacancy.

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Job Title: (Senior) Process Engineer

Responsibilities:

- Develop advanced packaging techniques and process for the assembly of high density and high performance electronic devices
- Coordinate and work with external parties (including customers, vendors, universities or research institutes) for the collaboration of the advanced packaging processes and assembly techniques for state-of-the-art electronic packages
- Manage the research and development projects for advancement of electronic packaging technology
- Manage and maintain the Advanced Packaging Technology Laboratory as well as the Micro-analysis and Microscopy Laboratory

Requirements:

- MPhil/PhD Degree in Material Science / Physics / Engineering or relevant disciplines
- Experience in using DOE tool for constructing and conducting DOE for various assembly process optimization
- Familiar with the analytical equipment for failure mode analysis such as SEM/EDX, C-SAM, AFM, confocal microscope, surface profiler and high power optical microscope
- Experience in project management for research and development programs
- Hands-on experience in various semiconductor assembly equipment is preferred
- Experience of using ANSYS or ABACUS to build model for stress and thermal simulation is a plus
- Optimistic and positive attitude
- Good communication skill
- Work independently and act as a good team player

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Job Title: (Senior) Computer Vision Engineer

1. ## AI Vision

Responsibilities:

- Conduct research and development in
    - Machine learning
    - Artificial intelligence for image analysis, image understanding and object classification
    - Segmentation for industrial applications
- Adapt advanced computer vision and state-of-the-art deep learning techniques
- Analyze and optimize image understanding performance on diverse industrial data sets
- Design and architect deep learning models for solving challenging image understanding problems
- Implement computationally complex model training and image understanding applications on high-performance embedded computational processing environments

Requirements:

- MPhil/PhD Degree in Computer Science / Electronic Engineering / Information Engineering / Mathematics or relevant disciplines
- Good logical thinking and analytical mind
- Passion for computer vision and machine learning research and development
- Willing to take up challenges
- Research and development experience in machine learning / AI is preferred

2. ## 3D Imaging Technology

Responsibilities:

- Conduct research and development in
    - Computational imaging technology
    - 3D image reconstruction and analysis
    - Optical metrology
- Develop holographic microscopy technique for kinds of ultra-precision (Nano-level) 2D/3D metrology applications

Requirements:

- MPhil/PhD Degree in Optical Engineering / Information Technology / Computer Engineering / Electronic Engineering / Mathematics or relevant disciplines

- Research experience in computational optics system design or 3D imaging / image reconstruction technology is preferred

3. <u>Product Development</u>

Responsibilities:

- Develop product by using computer vision technologies, such as object recognition & classification, and object alignment & gauging
- Apply anomaly detection technologies for machine automation and automatic visual inspection

Requirements:

- Bachelor/MPhil Degree in Computer Science / Computer Engineering / Electronic Engineering / Information Engineering or relevant disciplines
- Proficient in C/C++
- Knowledge in computer vision or image processing will be an advantage
- Knowledge in object / defect detection and segmentation, 3D measurement and video processing will be an asset

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1. AI Vision
2. 3D Imaging Technology
3. Product Development

Your preference will be taken into consideration; however, final assignments will be based on your qualification, competence and vacancy.

Job Title: (Senior) Control Engineer

Responsibilities:

- Focus on electro-mechanical system motion and process control
- Develop advanced motion control algorithm to achieve submicron precision motion
- Develop the machine diagnostic and prognostic mechanisms for mechatronic system
- Improve the process performance of semiconductor packaging machinery

Requirements:

- Master/PhD Degree with specialization in Automation or relevant disciplines
- Automatic control engineering fundamentals in classical and modern control methodologies
- Enjoy tackling technical challenges of providing creative solution to complex engineering system
- Candidate possesses one or more of the following competencies is preferred
    - Proficient in MATLAB, C/C++ and real-time computer system
    - Familiar with system analysis and system modeling, particularly mechanical servo, system dynamics, vibration, thermal process, motor, sensors and drive system
    - Hands-on experience in time domain and frequency domain instrumentation, e.g. scope, dynamic signal analyzers, modal analysis, laser sensors, accelerometer, etc.
    - Experience in robust control and adaptive control
    - Experience in machine learning and data analysis
- A good hands-on problem solver, with analytical mind and attention to details
- Good command of English is a must
- Good command of Mandarin is preferred

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Job Title: (Senior) Electronic Engineer

1. Electronics System - Power Drive and Power Supplies

Responsibilities:

- Develop machine power system, motor driver, and varies motion control electronics
- Develop advanced control, diagnostic and prognostic features for motion controller

Requirements:

- Master/PhD Degree in Electronic Engineering or relevant disciplines
- Experience in one or more of the following areas
    - Power electronic circuit and PCB design
    - Mix signal circuit and PCB design
    - MCU or DSP firmware design
    - SoC or FPGA firmware design
    - Electronic system diagnostic or prognostic development
- Background on CE / UL compliance design is a plus
- Background on motion control and digital electronics is a plus
- Good command of English is a must
- Good command of Mandarin is preferred

2. Digital Electronics

Responsibilities:

- Develop digital electronic systems in advancing packaging machinery
    - Digital electronic circuits, e.g. microcontroller, FPGAs, etc.
    - Digital system interface for various sub-systems

Requirements:

- Bachelor/Master's degree in Electronic Engineering / Computer Engineering or relevant disciplines
- Good experience in electronic circuit and SOC/FPGA design
- Good knowledge in VHDL/Verilog
- Basic programming skills on C/C++
- Good command of English is a must
- Good command of Mandarin is preferred

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1. Electronics System - Power Drive and Power Supplies
2. Digital Electronics

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Job Title: (Senior) Vibration Engineer

Responsibilities:

- Conduct machine dynamic analysis, vibration measurement and control
- Carry out mechatronics system design, and structural design optimization in semiconductor equipment automation

Requirements:

- Master/PhD Degree in Mechanical Engineering / Vibration Engineering / Mechanics Engineering or relevant disciplines
- Good understanding of vibration theory, vibration & dynamics analysis and vibration control
- Familiar with vibration measurement and modal testing
- Knowledge in design optimization or FEM will be an advantage
- Skills in MATLAB and CAD is preferred
- Experience in mechatronics design and precision system design is a plus

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