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:

- Passion to be the #1 "Go to Partner"
- Ownership of actions and behaviors
- Win with our customers
- Excellence in all that we do
- Respect for one and all

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

1. **Senior System Engineer / System Engineer (R&D)**
   Job description
   - Gather system requirements, prepare technical specification and provide system design and solution suggestion
   - Work closely with technical leaders to deliver electrical system solution of products
   - Participate in multiple projects simultaneously
   Job requirements
   - Degree or higher in Computer / Electrical / Electronic / Mechanical / Industrial / System Engineering or relevant disciplines
   - Keen interest and ability in system integration, workflow standardization and staying abreast of new technology
   - Basic knowledge in assembly & packaging equipment for semiconductor is an advantage
   - Good command of Mandarin and English preferred
   - Candidate with minimum 3 years' working experience in system integration or industrial controls will be considered as senior position

2. **(Senior) Computer Vision Engineer**
   Job description
   2.1 AI Vision
   - Conduct research and development in
     - Machine learning

- o Artificial intelligence for image analysis, image understanding and object classification
- o 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

2.2 3D Imaging Technology
- Conduct research and development in
    - o Computational imaging technology
    - o 3D image reconstruction and analysis
    - o Optical metrology
- Develop holographic microscopy technique for kinds of ultra-precision (Nano-level) 2D/3D metrology applications

2.3 Product Development
- 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

Job requirements

2.1 AI Vision
- 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
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer in job ads

2.2 3D Imaging Technology
- 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
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer in job ads

2.3 Product Development
- Bachelor's / Master's / 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
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer in job ads

3. Software Engineer (C / C++ Preferred)

Job description
- Responsible for cutting edge vision system development, including
  - Develop a high performance software platform with system programming such as kernel driver
  - Understand, develop and enable latest technology such as wireless, over 50Gb data communication and networking as well as real time distributed processing technology
  - Extend capability by controlling in-house hardware such as camera, lighting driver and communication board
  - Collaborate with leading technology companies for software and electronic engineering

Job requirements
- Bachelor's / Master's / MPhil Degree in in Computer Science / Computer Engineering / Electronic Engineering
- Proficient in C/C++ and Windows programming
- Familiar with Operating System kernel
- Hands-on experience in developing software in MS Windows / Visual Studio
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer

4. (Senior) Embedded System Software Engineer

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

Job 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

5. (Senior) Platform Software Engineer

Job description
- Key player on developing new generation advanced motion control platform

- Develop technical expertise and solution to equipment products on real-time embedded control applications

Job requirements

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

6. (Senior) Electronic Engineer

Job description

6.1 Electronics System - Power Drive and Power Supplies

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

6.2 Digital Electronics

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

Job requirements

6.1 Electronics System - Power Drive and Power Supplies

- Bachelor's Degree or above 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
- Fresh graduates will also be considered

6.2 Digital Electronics

- 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

- Fresh graduates will also be considered

7. Thermal Engineer

Responsibilities:

- Design cooling and heating systems and follow through the deployment
- Drive thermal designs with numerical approaches, model based analysis
- Conduct experiments to validate designs
- Develop and optimize automation scripts for numerical analysis tools
- Support thermal management for electronics
- Involve in precision and mechatronics design work occasionally

Requirements:

- Degree or higher in Mechanical Engineering / Physics or relevant disciplines
- Good understanding of thermal technologies including computational modeling and calculation
- Working or research experience in thermal system design is a plus
- Knowledge in precision machine design, CFD or thermal modeling tools is a plus

8. Motor Design Engineer

Job Description

Electric Motors are widely used everywhere, such as electrical cars, fans, automation machines, robots and so on. ASM designs high performance motors for semiconductor packaging/SMT equipment. Those are high speed and precision applications. Do you want to use your technical experience to design advanced motors? If you are passionate on Engineering and Technology, like to push for its boundaries, then this job is for your best choice!

- Define requirements, execute design as well as conduct analysis, development, and testing on electric motors (linear & rotary motor)
- Focus on electromagnetic (EM) design
- Communicate, coordinate, and consult with product design team and customers
- Provide technical direction to other engineers, or engineering support personnel
- Perform research on advanced motor design technology

Job requirements

- Master's Degree or above in Electrical / Electronics / Mechanical Engineering or relevant disciplines
- Experience in using electromagnetic simulation software including but not limited to Magnet / Ansys Maxwell/ Jmag
- Good understanding of motor design knowledge and optimization methods
- Quick learning ability and continuous improvement mindset
- Good team working spirit

9. (Senior) CAE Engineer

Job description

- Perform complex design analysis by using Computer Aided Engineering (CAE) software

- Optimize mechanical motion modules for precision applications
- Develop new numerical solutions for multidisciplinary design problems

Job requirements

- Master/MPhil/PhD Degree in Mechanical Engineering or relevant disciplines
- Proficient in CAD tools
- Hands on experience in ANSYS on modal analysis
- Experience in MATLAB / Python scripting will be an advantage
- Fresh graduates are welcome
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer

10. **(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
- Candidate with minimum 5 years' relevant working experience may be considered as Senior Engineer

Interested parties, please submit your application with resume, certificate, transcripts and/or other references on our Career Site.

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

Attractive salary and fringe benefits package will be offered to the right candidates. Data collected will be used for recruitment purpose only. Suitable candidates may be referred to other vacancies within our company. Please visit our company website for our company background, products and other useful information.