

VACANCY BULLETIN

As one of the world's leading analytical instrumentation companies, **BRUKER** covers a broad spectrum of advanced solutions in all fields of research and development. All our systems and instruments are designed to improve safety of products, accelerate time-to-market and support industries in successfully enhancing quality of life. We've been driving innovation in analytical instrumentation for 50 years now. Today, worldwide more than 6,000 employees are working on this permanent challenge, at over 70 locations on all continents.

Assembly Technician (Electro-Mechanical Technician)

Responsibilities:

The primary responsibility of an Assembly Technical (Electro Mechanical Assembler) is build sub-assemblies that will be then integrated into complete systems. This position would be required to read detailed drawings and work instructions to successfully complete these assemblies. The ability to work well as part of a coordinated team is also a requirement.

Essential Functions:

- Build precision electro mechanical assemblies to print
- Improvement projects
- Other product or process related projects

Knowledge, Skills and Abilities:

- Precision soldering skills
- Knowledge of Microsoft Outlook, Excel, Word
- Critical attention to minute details
- Punctual and reliable
- Mechanically inclined
- Good communication skills verbally and written
- Management may assign tasks requiring judgment in resolving issues or in making recommendations
- Good eyesight
- Exceptional hand dexterity for small parts assembly
- Ability to work in a cleanroom environment
- Ability to lift 50 pounds (~22kg) from floor to hip height
- Alert to the environment to avoid hazards in the work place
- Orderly, keeping work environment clean and organized

Requirements:

- Minimum of 3 years of experience building high level electro mechanical assemblies
- Minimum Diploma/Degree in Engineering; Mechatronic or Electromechanical preferred

VACANCY BULLETIN

Test Technician

Responsibilities:

This position is responsible for the integration and qualification of complete and partial systems for various Bruker product lines. Each system is assembled and tested to a specific customer order requiring timeliness of completion and accuracy of configuration. This job includes trouble shooting and the correction of mechanical and electrical problems and requires skill in these areas. The position requires an ability to work productively individually or as part of a group.

Essential Functions:

- Completion of customer orders
- Quality improvement projects
- Other product or process related projects

Additional responsibilities may include:

- Participation on new product release teams
- Conducting training on the testing and use of Bruker systems
- Participating in improvement projects
- Other duties as assigned

Travel:

Assignment may begin with a 1-2 month training session at a Bruker factory. Details will be determined when a job offer is presented to the successful candidate. Additional travel and training may be required when a new Bruker product is to be transferred to the Penang facility; it is unlikely that such training will be required more than once every two years, but exceptions are possible.

Requirements:

- Typically requires 3 – 5 years of related experience in a manufacturing testing environment
- Diploma Engineering, Electronics/Electrical/Mechatronic preferred
- Ability to perform corrective actions based on test results
- Advanced ability to trouble shoot mechanical, electrical, and system issues
- Ability to perform electrical and mechanical precision alignment, i.e. z-corrections as well as pitch and linearity corrections
- Interfacing with ME and R&D on prototype builds and testing, with limited written instruction
- Basic computer skills, Mechanical and Electrical troubleshooting skills, technical aptitude
- Basic mechanical abilities required
- Must be able to lift ~50 lbs

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Manufacturing Engineer

Responsibilities:

Manufacturing Engineers manages and assets risk of Product Life Cycle for products throughout all Phase Gate process by identifying exposure to key issues for each Phase Gate:

- Phase 1(Concept) - provides early vendor and supplier input along with input of new and or similar manufacturing process of concept presented, highlighting probability of success through risk assessments and mitigation
- Phase 2 (Feasibility) - gives early input to engineering using DfX and DFMA processes and identifying Key supplier requirements. Estimate's cycle times based of Proof of Concept designs and create processes for manufacturing based on FMEA. Develops preliminary QA plan for 1st article inspection and process tracking
- Phase 3 (Development) - drives PLC requirement and performs proof of manufacturing on beta systems, ranking of supplier selection, i.e. weak and or unique single source conditions. Creates robust test plans for manufacturing and scales up production for release to manufacturing. Develops and designs tooling and fixtures based on capital equipment requirements and updates risk and mitigation plans
- Phase 4 (Scale-up) - continues to drive PLC requirements and demonstrates all proof of manufacturing activities and PLC management, including ECO Management, QA metrics and Key Performance Indicators, i.e. (First Pass Yield, In Box Quality, Out of Box Quality, material Obsolesces, Scrap and BOM management, etc.)

Manufacturing Engineering leads and transitions subsequent in- sourcing strategies if required into Operations and works closely with Product Development, Manufacturing Operations, Manufacturing Engineer for sustaining products along with Product Development and Operations internal customers to:

- Provide sustaining engineering expertise and project management of in-sourcing strategies, including sustaining production requirements, quality improvement, and project management such as product transition, cost reduction, inventory reduction, and or sourcing change
- Execution of manufacturing quality improvement strategy through final functional verification process (Final Test), managing non-conforming parts in process (NCFR), and closed loop corrective action (CLCR)
- Lead strategic planning for Test, Manufacturing, and process creation
- Development of Manufacturing Documentation, Tooling, and Test Fixtures for both contract manufacturing and operations
- Identify and execute on opportunities for Gross Margin improvements through Risk and Mitigation plans per PLC and sourcing strategies
- Lead projects related to Best Cost Manufacturing and aligned with business objectives. Examples may include Insourcing, Outsourcing, and/or Cost Reductions - Value Engineering
- Lead product ownership from Proof of Manufacturing through Obsolescence
- BOM Maintenance, Engineering Changes, Design Improvements, Lean Manufacturing, DMAIC, DFMA and DfX on NPI

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Essential Functions:

- Sourcing Strategies
- NPI (New Product Introduction)
- Engineering and Operations Documentation
- Sustaining Production
- Process Improvements

Requirements:

- Bachelor of Science in Mechanical or Electrical Engineering or equivalent
- More than 5 years current experience preferred, in Mechanical and automation assembly designs, including Manufacturing Engineering background using DFMA/DFx process for design and fabrication
- Strong background in Manufacturing Engineering metrology background and product transition into operations preferred
- More than 5 years current experience using CAD design systems (SolidEdge preferred)
- Project management experience
- Good engineering analytical skills in order to design and build tooling and fixtures for mechanical or electrical/electronic models.
- Ability to generate a range of solutions and choose the most appropriate.
- Good understanding of the qualities required of any good design.
- Good organization skills and ability to handle multiple projects simultaneously
- Ability to use design programs
- Able to travel domestic or internationally
- Other duties as assigned or as necessary



Interested candidates are invited to apply online or write-in with a full resume stating qualifications, contact number, working experience, and expected salary together with a recent passport-sized photograph to daphne.kok@bruker.com or to the following address:

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