**Instrument Head**

This position is responsible for providing hands-on Instrumentation leadership for all facility class instruments. Desired competencies include: good supervisory skills, sound instrumentation engineering skills; demonstrated ability to plan and manage instrumentation work such as troubleshooting, repairs, maintenance, minor upgrades, major refurbishment, and supporting the commissioning and integrating of new instruments into the company premises.

This position directly supervises the Asst. Manager, Sr-officer & officer of Instrument and collaborates closely with summit day crew, particularly instrument technicians. In addition, the Instruments Lead Engineer collaborates with project team to help integrate new instruments at the company premises.

**Key Responsibilities:**

* Formulate a plan, review and analyze preventive maintenance strategy for the equipment instrumentation in order to achieve highest efficiency of the activities for reliable and safe operation.
* Provide technical advice during troubleshooting and corrective action of instrument breakdown or failures to find the root cause and best solution in order to restore the functionality back to normal.
* Attend to technical query by operation personnel and provide advice/solution according to best engineering practice to address issues which affect the operation.
* Administer the relevant contract, its contractors and suppliers associated to the works as contract holder to ensure compliance to the procedures, policies and guidelines set to support the maintenance needs.
* Monitor spare parts and inventory for critical instrumentation to ensure availability when required in order to minimize production interruption. Establish new inventory/cataloging where necessary. Update information in the inventory to ensure it is relevant for the current operation.
* Provide technical inputs in full cycle of procurement processes for contract, materials and service requisition where required so that all technical requirements are addressed properly to protect company interest.
* Identify, study, propose, and implement area for improvement (project) in the field of instrumentation engineering to enhance operation and improve total equipment reliability.
* Develop the plan, scope and lead the execution of shutdown works for instrumentation to ensure completion within the specified window.
* Forecast and prepare budget for instrument related activities i.e. maintenance, shutdown and project for consolidation into department yearly Work Program and Budget. Monitor budget utilization closely and provide justification for variance.
* Supervise work execution on site, develop procedures and instruction for either maintenance, shutdown or project to ensure compliance to safety, specification, standard and procedures in order to achieve highest quality of the work.
* Supervise and groom Junior Instrument Engineer to develop his technical knowledge, skills and
* competencies in order to produce potential talent for future business needs
* Initiate & maintain the IMS documents as well as maintain the system of TQM & 5’S. Also encourage the engineers & technician to involvement with the system.

**Assistant Manager-Instrument**

Under the general supervision of the Instrument Head, this position is responsible for providing hands-on instrumentation leadership for all facility class instruments. Desired competencies include: good supervisory skills, sound instrumentation engineering skills; demonstrated ability to plan and manage instrumentation work such as troubleshooting, repairs, maintenance, minor upgrades, major refurbishment, and supporting the commissioning and integrating of new instruments into process plants & utility.

This position directly supervises the Sr-officer & officer of Instrument and collaborates closely with summit day crew, particularly instrument technicians. In addition, the Instruments Assistant manager collaborates with Support Astronomers to provide them engineering support and collaborates with project team to help integrate new instruments at the company premises.

**Key Responsibilities:**

* Formulate a plan, review and analyze preventive maintenance strategy for the equipment instrumentation in order to achieve highest efficiency of the activities for reliable and safe operation.
* Provide technical advice during troubleshooting and corrective action of instrument breakdown or failures to find the root cause and best solution in order to restore the functionality back to normal.
* Advise the operation personnel according to best engineering practice to address issues which affect the operation.
* Make the list of spare parts and inventory for critical instrumentation to ensure availability when required in order to minimize production interruption.
* Provide technical inputs in full cycle of procurement processes for contract, materials and service requisition where required so that all technical requirements are addressed properly to protect company interest.
* Identify study, propose, and implement area for improvement (project) in the field of instrumentation engineering to enhance operation and improve total equipment reliability.
* Develop the plan, scope and lead the execution of shutdown works for instrumentation to ensure completion within the specified window.
* Supervise work execution on site, develop procedures and instruction for either maintenance, shutdown or project to ensure compliance to safety, specification, standard and procedures in order to achieve highest quality of the work.
* Supervise and groom Junior Instrument Engineer to develop his technical knowledge, skills and
* competencies in order to produce potential talent for future business needs
* Initiate & maintain the IMS documents as well as maintain the system of TQM & 5’S. Also encourage the engineers & technician to involvement with the system.

**Senior Officer-Instrument**

Under the general supervision of the Instrument Head & Assistant Manager, this position is responsible for providing hands-on instrumentation leadership for all facility class instruments. Desired competencies include: supervisory skills, sound instrumentation engineering skills; demonstrated ability to plan and manage instrumentation work such as troubleshooting, repairs, maintenance, minor upgrades, and supporting the commissioning and integrating of new instruments into process plants & utility. This position directly supervises the technicians & contractor personnel.

**Key Responsibilities:**

* Involve in the Plant Instrumentation systems for industrial applications and plans these systems using recognized industry standards and specifications.
* Responsible in Electronics Data Acquisition Systems, Calibration, Measurement &Interpretation, Operations, Pre-Commissioning, Commissioning &coordinate with vendors for getting as-built drawings, Maintenance & Installation of Field Instruments.
* Witness for: Control loops of Flow, Temperature, Level, Pressure, Vibration, Function Groups, Alarm & Interlock systems.
* Review and check all assigned project Instrumentation installation drawings for compliance with all company and project instructions (P&I diagrams, Instrumentation equipment location drawings, plan drawings, details, schematics, wiring diagrams, etc.) of technical vendor submittals for installation requirements.
* Develop technical bid tabulation to support the selection of major Instrumentation equipment along with Instrumentation.
* Site supervision and execution of the Instrumentation equipment and installations.
* Should support Utility team to meet the Hungarian statutory requirements of Pollution and Boiler.

**Officer, SU-1 and Technician-Instrumentation**

Employees in positions allocated to this level perform duties requiring a high degree of skill in the installation, maintenance, repair, and calibration of pneumatic, hydraulic, and electronic power plant instruments. They work under general supervision from an Instrument Sr- Officer or other designated supervisor.

**Characteristic Duties and Responsibilities:**

An Instrument Technician typically –

* Record, integrate, regulate control instruments (such as pressure, flow, level, temperature and burners, gauges, and control devices), repairs and adjusts indicating instruments.
* Disconnects inaccurate or damaged instruments and makes suitable replacements.
* Disassembles instruments, examines mechanisms, cleans parts, replace worn or broken parts.
* Assembles instruments, and checks via testing apparatus.
* Calibrates instruments and combustion controls to coincide with established standards
* Conducts scheduled preventive maintenance of instruments and makes adjustments to those not functioning properly
* Stores, repairs, and maintains in proper operating condition special testing apparatus (such as potentiometers, sophisticated instrument, and thermocouples)
* Assists members of the mechanics crew as required
* Cleans and dusts instrumentation equipment
* supervises personnel as assigned
* performs related duties as assigned