



PETRONAS

PETRONAS Position Description

Position Code	21259	Sector	R&T
Job Title	Researcher	Company	PETRONAS Lubricant International (PLI)
Skill Group	Process Technology R&D	Division	-
Business Unit	Santena	Department	Research & Technology; GR&T
		Section	Laboratory

POSITION DESCRIPTION

JOB PURPOSE

- Undertake R&D activities in Fluid Technology Solutions according to established objectives, schedules, costs, and quality and safety requirements in line with PETRONAS standards
- Responsible for results interpretation and reporting
- Demonstrating a high level of innovation of new/best practices in technology and product development
- Participate in cross functional activities in technology development, sustain good working relationships with local and international suppliers.

KEY ACCOUNTABILITIES

1) Perform Research and Development (R&D) activities

Execute Fluid Technology Solutions R&D projects' activities by ensuring the projects are established in line with research methodologies and HSE standards in order to achieve desired quality within agreed time frame. R&D activities include as following but not limited to:

- a. Carry out organic and inorganic syntheses.
- b. Carry out catalytical reaction at elevated temperature-pressure with good understanding of phase behavior, mass-heat transfer, and reaction kinetics.
- c. Carry out reaction performance monitoring and optimization.

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Development Lab Analyst



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- d. Perform root-cause and failure analysis (RCFA) during process/equipment upsets and propose solutions for the process upsets.
- e. Carry out and coordinate sample analysis using analytical chemistry techniques like chromatography, FT-IR and mass spectrometry.
- f. Carry out literature search
- g. Demonstrate strong problem-solving skills with the ability to parse complex technical problems

2) R&D Data reporting

As part of the data reporting to R&D leader and team,

- a. Gather and interpret analytical data, process data and overall testing result (yield, mass balance etc)
- b. Maintain, update and ensure the accuracy of the master R&D database

3) Equipment Management

Manage and coordinate the preventive and corrective maintenance of laboratory equipment and reactor rig.

Identify and recommend best practices for hardware and procedure for system improvement.

4) R&D Work Culture and Promotion

Collaborate within the R&D team to write technical papers for the purpose of presentation and/or publication to enhance the company's image and credibility in Fluid Technology Solutions. Effectively implement Knowledge Management for R&D projects through systematic documentation to preserve and share technological development and advances within the organization.

Promote R&D quality work culture within project teams to generate technology innovation and incubation through creation of innovative, open, conducive environment and effective communication and networking

5) HSE Support

Perform risk assessment and develop operating procedures for all R&D activities

Ensure compliance to internal HSE standards and statutory requirement.

Reporting near miss and potential safety incidents

GENERIC ACCOUNTABILITIES (Do not Edit)

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NETWORKING AND RELATIONSHIP BUILDING

Foster and sustain effective working relationships and rapport with the government authorities, business and management institutions, national and key industry players and service providers to keep abreast with latest development to capture new business opportunities.

GOOD GOVERNANCE (APPLICABLE TO MGR ABOVE)

Enforce the implementation of applicable PETRONAS procedures and guidelines and affect the compliance to statutory and legislative requirements to ensure conformance to the established Limits of Authority (LOA) to safeguard PETRONAS interest, image and reputation.

CODES OF CONDUCT & BUSINESS ETHICS (COBE) AND HSE POLICIES

Communicate, interpret and champion the execution of the objectives and provisions of the Health, Safety and Environment (HSE) policies and Codes of Conduct & Business Ethics (COBE) and undertake appropriate mitigation and/or intervention programs to safeguard business operations, high staff discipline and industrial harmony.

LEADERSHIP AND CAPABILITY DEVELOPMENT

Drive the development of competent working team that will enhance and sustain staff capabilities in achieving high performance delivery to ensure internalization of the right leadership and capabilities in executing their jobs.

MINDSET, BEHAVIOUR AND CULTURE

Develop and implement distinctive mindset, behavior and culture to achieve high work performance by adoption and implementation of value interventions, tools and methodologies to promote and instill high sense of commitment, ownership, integrity and loyalty that will contribute to operational excellence.

BUSINESS / FINANCIAL DIMENSION

FY	
Volume:	
Others: (Please specify)	

Subordinates	
Executive - Direct	
Executive - Indirect	
Non-Executive (Business Assistant)	

QUALIFICATION & EXPERIENCE

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- Degree, preferably in Chemical Engineering/Chemistry
- Experience in operating a pilot plant/tubular reactor is desirable
- Experience in heterogenous catalysis will be a plus

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Competencies/Skills:

- Strong problem-solving skills with the ability to parse complex technical problems
- Basic knowledge of lab equipment and analytical test methods
- Good English knowledge is mandatory, Italian is a plus
- Strong interpersonal skills and team player mentality
- Good knowledge of IT tools (i.e MS Office.) Knowledge in data analytics tools will be a plus.
- Excellent written and oral communication skills

POSITION DESCRIPTION

Company:	PLI	Manager/ Supervisor: <i>(name & title)</i>	GLOBAL APPROVAL AND PLM PROCESS MANAGER
Position:	GLOBAL APPROVAL AND PLM PROCESS Specialist	<i>Signature:</i>	
Function:	Research & Technology	Job Holder: <i>(name)</i>	Massimo Peraldo
Location:	VILLASTELLONE	<i>Signature:</i>	
Reports to:	GLOBAL APPROVAL AND PLM PROCESS MANAGER	Evaluated Grade: <i>(and date)</i>	-

A. POSITION PURPOSE (A brief description of the role)

As part of the department, the scope of this role is to support the Manager in make available all the Technical information and documentation for each product, allowing both the global and regional PLI functions to take the right decisions supporting sales, cost effectiveness and accomplish legal duties. Specifically, the role is to make available documents such as Approvals or Licenses from OEMs and International Entities. Mission of this position is also to provide Data such as Analytical values and Performance profiles. Finally yet importantly is to make available any OEMs performance limit coming from their own specifications for the periodic requalification of products.

He/She has to support the Technical Liaison in the analysis of samples from OEMs.

B. POSITION DIMENSIONS (Indications of value created/impacted upon or costs incurred or quantifiable resources utilised to deliver value – if applicable)

Budget:	
Revenue:	
Others: (Please specify)	

Subordinates:	
Exempt	: 0
Non Exempt	: 0
Total Staff	: 0

C. POSITION NATURE & SCOPE

Key Accountabilities

Support Technical Liaison – to collect the samples of used oil coming from the OEMs in order to classify and support the laboratory in the process of analysis (throughout LIMS SYSTEM)

Approval management – support the approval process for all types of OEM's and International licenses. He/she manages formulations, samples preparation through R&T tools (DPC & LIMS tools), providing any type of analytical data from any PLI or external laboratories and product data coming from Marketing, KAM, Sales and S&OP departments.

Support in renewing and keeping updated the OEM's approvals along the products life.

Managing the Approvals in the ACT system (Approval management tool).

Data Management – Other than what already listed above - ACT system (GDBF, Product Management tools) responsible in uploading data used for approvals and support for uploading and for keeping updated the OEM's specifications analytical data and performance limits for the periodic products requalification.

Set up and managing in the DSP system the Technical Data Sheets on behalf of the European Marketing specifically for the European market & product ranges.

Key Challenges:

Supporting in delivering and make available with a timing aligned to the PLM process & stakeholders' expectations all the documentation such as TDS and Approvals. To plan and tuning the TDS creation process to fulfill the expectations in the best way.

Communication and Working Relationship (Internal/External):

Internal – Mains relationships are within the R&T department with team such as Fluid Technology Teams, Regional Technology Services, and Laboratories. Other strong relationship outside R&T are with the Global and Regional Marketing Teams for General Market Products and KAMs every time a First Fill or a Genuine Oil is involved.

External – n/a

Qualifications & Education:

Technical High School / Degree in technical disciplines.

Training in fluids classification and International/Industry/OEM specifications, Training on fundamental of powertrain operations and lubricants chemistry.

Basis of laboratory analysis.

Skills/Experience/Knowledge:

Project management to execute timely

Problem solving

Good English

Proactive