

Catalyst Research Leader:

Salary Range is in Dhs. 22112/- – 27344/- (including allowances)

➤ **Basic Function:**

- Manages and leads the activities of Catalyst Research Section.
- Studies and evaluates new technologies on refinery catalyst field and contributes to the overall performance of TAKREER's operation and research & development
- Develops new catalyst technologies by cooperating with such research institutions as PI and other research institutes, as well as catalyst manufactures.
- Contributes towards the advancement of TAKREER's catalyst technology related to refining and environmental protection.
- Contributes towards the advancement of scientific and technological qualification on catalyst fields of UAE and UAE nationals.
- Applies new developed technologies to refineries and TTC with the assistance of engineers.
- Directs and leads research activities on new technology development with cooperation with PI and other international research institutions.
- Initiates research activities on new technology within TTC and outside TTC.
- Carry out original investigative studies to resolve technical problems outside the scope of available literature
- Collects the state of art of information of the most advanced technologies and applies them to refineries and TTC.
- Conducts various studies for TAKREER to apply new catalyst technologies and systems.
- Encourages and promotes the participation of TTC personnel to present technical papers to various conferences, exhibition and scientific societies.
- Collaborates with the academic group of people in the petroleum and refinery sectors, Universities, research institutes, etc.
- Conducts and leads accumulation of technical information on catalysts within TAKREER as well as from outside.
- Provides technical expertise for catalyst related issues/subjects of refinery units and operation.
- Guides and coordinates with engineers who are working on catalysts in refineries.
- Reviews and advices on the subject related to catalyst, performed by Project Management Consultants and Engineering Contractors.
- Develops 'Statement of Requirements' for catalyst related subjects.
- Provides guidance in trouble shooting on catalyst in the refineries as required.
- Supervises and approves the design and engineering works for catalysts and reaction systems, performed by engineering contractors or catalyst suppliers.
- Reviews/comments/approves catalyst related issues on PFD & P&ID, Datasheets, technical documents, technical specifications, standards and technical evaluation report.
- Provides advice and assistance to TAKREER's plants on catalysts.
- Supports the technical activities of catalyst related issues for refineries to ensure uninterrupted supply of on grade finished hydrocarbon products.
- Key liaison of catalyst research aspects with Ruwais Refinery, Abu Dhabi Refinery, Business Support Department, ADNOC R&D, Petroleum Institute and other Government agencies.
- Manages and evaluates the various performance tests on catalysts used in refineries.
- Supports and guides catalyst selection to achieve optimized operation.
- Coordinates and cooperates with pilot plant operation to manage evaluation and investigation of catalysts.
- Supports the technical studies and investigation on troubles of catalysts, fouling materials etc.
- Conducts improvement on existing catalysts with pilot operation and further investigation.

Conducts research and development activities to develop novel catalysts.
Carries out fundamental and basic investigation/study on catalysts
Evaluates competing catalysts and makes recommendation for replacement.

Minimum Requirements:

Ph.D in Chemical Engineering with 5+ years experience in R&D capacity
OR

M.Sc. in Chemical Engineering with 10+ years experience in R&D capacity
OR

B.Sc. in Chemical Engineering with 15+ years experience in R&D capacity
Excellent Communicator and must have good interpersonal skills