

**Job Title:** PhD positions in Chemical Engineering**Job Description:**

PhD positions are available in Chemical Engineering for the enthusiastic, ambitious, and hard-working students for Spring/Fall 2023 at Chemical and Petroleum Engineering Department, College of Engineering, United Arab Emirates University. The projects will be focused on the catalysts/photocatalysts and reactors with the following topics: (a) Renewable energy and green fuels production; (b) Photocatalytic CO<sub>2</sub> conversion and hydrogen production; (c) Petroleum industry and other wastewater treatment using membrane photoreactor; (d) Structured Nanomaterials for Solar Energy Storage and Conversion, (e) Biomass conversion to hydrocarbon fuels using solar energy; (f) Conversion of desalinated water to green energy and fuels; and (g) Synthesis and characterization of bio-derived graphene for fuel cell application. The projects will also include theoretical/computation investigation such as DFT calculations and simulations using numerical methods (COMSOL). The UAE is an open and tolerant society to live and work. The United Arab Emirates University is situated in the city of Al-Ain. Interested candidates contact Dr. Muhammad Tahir through email [muhammad.tahir@uaeu.ac.ae](mailto:muhammad.tahir@uaeu.ac.ae) and submit online application through University admission portal The supervisor Scopus profile can be observed at <https://www.scopus.com/authid/detail.uri?authorId=56308983900>. Applications for entry in Spring 2023 must be submitted as soon as possible.

**Minimum Qualification:**

- 1) Must have a masters' degree in Chemical Engineering
- 2) Must have published at least one peer reviewed journal article in a reputed journal. More publications and conference presentation will be advantageous.
- 3) Ability to work independently with flexibility and initiative-based approach

**English Requirement:** A minimum IELTS score of 6.5 is mandatory for this position.

**Starting Date:** Spring 2022 and Fall 2023

**Special Instructions to Applicant:** Submit a detailed CV, IELTS score, BSc and MSc (GPA be scaled out of 4.0) to [muhammad.tahir@uaeu.ac.ae](mailto:muhammad.tahir@uaeu.ac.ae).