



## Postdoctoral Fellowship and Research Fellowship Opportunity in the Department of Geosciences, College of Petroleum Engineering and Geosciences, KFUPM, Saudi Arabia

The College of Petroleum Engineering & Geosciences, or **CPG** (<https://cpg.kfupm.edu.sa/>) at King Fahd University of Petroleum and Minerals (**KFUPM**), Saudi Arabia offers a key combination of three elements unmatched by any other college in the world: integration, industry access and legacy. It is a place where people can “explore, learn and solve” to advance the sustained delivery of reliable energy with minimum impact on the environment. At CPG, we are excited to hear new ideas and welcome talented students, researchers, and industry collaborators as part of our efforts to advance the future of geosciences in the Kingdom and globally. CPG is currently **ranked 7<sup>th</sup> worldwide** based on QS World University Rankings by Subject in Petroleum Engineering-Geosciences.

*The Paleoenvironment, REservoir, and DIagenesis Characterization Technology (PREDICT)* research group is actively looking to recruit talented international postdoctoral scholars to join this newly established multidisciplinary research group in the Geosciences department, CPG, KFUPM. Our current research interests are broadly covering field-based carbonate sedimentology and diagenesis, quantitative carbonate sedimentology and geochemistry, and state-of-the-art artificial intelligence applications in geosciences. At CPG, we have access to cutting edge research facilities such as the QEMSCAN automated mineral mapping laboratory, the Multi-Purpose Isotope laboratory, and the Al-Fahd High-Performance Computing facility. In addition, you will have an opportunity to interact and collaborate with renowned researchers from various leading universities and energy industries through our global, interdisciplinary research initiatives.

**Postdoctoral opportunity:** We are looking to recruit two postdoctoral research fellows in two general research topics of **quantitative carbonate geochemistry** and **AI in geosciences**. Applicants must have (or be about to obtain) a PhD in a relevant area. Interested candidates are expected to have a strong background in the respective field of research. We particularly welcome candidates with computer science or engineering background for the artificial intelligence project.

**Research Fellows opportunity:** There are several opportunities to apply for a research scientist or research engineer positions related to the applications of artificial intelligence to geosciences to join either Department of Geosciences or Geosystem program at Center of Integrative Petroleum Research. Please enquire about this position. You should have a proven track record of publication in high-impact journals and over five years of subsequent research or industrial experience following the PhD.

For the carbonate geochemistry position, experience working with novel geochemical method, preferably including clumped or metal isotopes (e.g., Mg, Ca, S, U, and Fe) and geochemical modeling are considered an advantage. For the AI in geoscience position, experience working with big dataset and machine learning related research projects are required. You should have a proven track record of publishing high-quality journal papers in the respective field of research, the capability to delivering impactful research and the willingness to advise student's research. Candidates are encouraged to develop their own research ideas and contribute to developing and advancing new knowledge and techniques in the department, college, and KFUPM in general.



For these postdoctoral and research scientist positions, we offer an internationally competitive tax-free salary and benefits package for qualified candidates. Salary and benefits will be commensurate with qualifications and experience. KFUPM and CPG provide an attractive benefits package including free on-campus housing, fully paid premium health insurance, dependent education aid, and paid tickets for annual repatriation holidays. The annual contract includes two months of paid summer holiday. As a postdoctoral scholar or research scientist, you can work either in the Geosciences department or the Centre of Integrative Petroleum Research (CIPR), depending upon the suitability of the candidate background and future research interests. These positions are for two years for the initial appointment, and there is a possibility to extend the appointment for two more years, depending on funding availability and satisfactory performance of the candidates. The selected candidates are expected to start as soon as possible after the 1<sup>st</sup> of January 2022.

Postdoctoral scholar or research scientist applicants should send their most updated CV, publication list, statement of research, and cover letter to be considered for the advertised positions as soon as possible, but no later than 30<sup>th</sup> of November 2021. Please mention the position you are interested in applying for in the subject of your email. For more information or to apply for the positions, please send enquiries to Dr. Ardiansyah Koeshidayatullah ([a.koeshidayatullah@kfupm.edu.sa](mailto:a.koeshidayatullah@kfupm.edu.sa) and cc: [ardikoes@stanford.edu](mailto:ardikoes@stanford.edu)). If shortlisted, the candidates will be notified and invited for an interview.

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|--------------------|---------------------------------|-------------------------------------|--|-----------------------|-------------------------------------|-------------------------|
| Facts &<br>Figures | 186th                           | 7th                                 | 4th  | 1300+                 | 10,000                              | 4%                      |
|                    | Worldwide Overall ranking by QS | Petroleum Engineering ranking by QS | Worldwide Ranking among universities in number of US patents | US registered patents | Undergraduate and Graduate Students | Student Acceptance Rate |