

Interdisciplinary Research Center for Construction and Building Materials

Search for the Post-Doctoral Research Fellows

Closing date - open until filled.

The broad discipline of the candidate – Civil Engineering/ Architecture/ Chemistry/Chemical Engineering/Material Science/Computer Science/ Mechanical Engineering

We are looking for postdoctoral research fellows to join the newly formed Interdisciplinary Research Center for Construction and Building Materials at King Fahd University of Petroleum & Minerals. The applicants who have completed their Ph.D. or about to do so from a reputed university are encouraged to apply.

The selected candidates are expected to assist Senior faculty/Researchers in developing new and smart building and construction materials; model the behavior of materials; create research tools; mentor Ph.D., M.Sc., and/or B.Sc. students in their research work; write research proposals and reports; publish research papers and file patents; and disseminate the research outcomes to the society.

The applicants should have research experience in one or more of the research areas noted below, as evidenced through their theses and published work. Candidates with knowledge of materials characterization using advanced techniques such as SEM, XRD, XRF, FESEM, FTIR, DSC, TG/DTA, etc. will be given preference.

- Composite materials, including smart construction materials
- Corrosion-resistant materials and systems
- Non-metallic materials in the buildings and infrastructures
- Energy-efficient materials and systems suitable for severe climatic conditions
- Cementitious materials incorporating nanomaterials
- Alkali activated binders and polymer concrete
- Structural health monitoring.
- Innovative inspection techniques, such as laser-induced breakdown spectroscopy, advanced non-destructive evaluation techniques, petrographic examination, etc.
- Molecular-level simulations of materials
- Applications of machine learning and artificial intelligence to modeling materials, construction systems and inspections.
- Modeling of composite/non-composite structural elements.
- Innovative digital manufacturing techniques, including 3D printing of concrete.

How to Apply

The position is now open, and applications will be reviewed as they are received until the positions are filled. To apply, please click the following link: <https://postdoc.kfupm.edu.sa/how-to-apply.html>

The candidates may also email the application package to Dr. Mohammed Al-Osta (irc-cbm@kfupm.edu.sa), attaching the following:

1. A cover letter
2. A detailed academic CV including a minimum of three references (including Ph.D. supervisor)
3. Copies of transcripts and degree certificates
4. Copies of two or more relevant journal publications related to the research area (most relevant and high impact)
5. One page research statement showing your future plans and how they fit in the proposed areas of research of the Center.

We thank all applicants for their interest. However, only those individuals selected for an interview will be contacted.