

Dr. Jamal Khaled Alghamdi

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Current Appointment

- Assistant professor, department of architecture, Engineering collage, Albaha University (2017)

Education

BSC | 2004 | KING ABDUL AZIZ UNIVERSITY

- Major: Architecture
- Minor: Architecture
- Related coursework: graphic design, BIM, project management, architectural details, and sustainability

MSC | 2008 | VIRGINIA POLYTECHNICAL AND STATE UNIVERSITY

- Major: Architecture
- Thesis title: CFD simulation methodology for ground-coupled ventilation system
- Related coursework: energy simulation, building science, material performance, building technologies

PHD | 2017 | CARDIFF UNIVERSITY

- Major: Architecture
- Thesis title: Thermal energy storage technologies for zero carbon housing in the UK
- Related coursework: energy simulation, thermal energy storage, electrical energy storage, Passivhaus design

Professional History

TEACHING ASSISTANT | KING ABDUL AZIZ UNIVERSITY | 2004-2005

- Taught undergraduate courses of: Computer introduction, Architectural design studio (levels 3-5), Architectural presentation, Architectural details and technical drawings (level 1 and 2), and CAD.

ARCHITECTURAL DESIGNER | SALAH ALZOGHAIBI FIRM | 2004-2005

- Worked as an architectural designer in many projects ranges from hyper malls, to residential complexes. Engaged in real-estate development projects as well.

LECTURER | KING ABDUL AZIZ UNIVERSITY | 2009-2010

- Taught undergraduate courses of: CAD, Computer introduction, Architectural presentation, Architectural design studio (levels 5-6)

LECURER | ALBAHA UNIVERSITY | 2010-2017

- Taught various undergraduate courses and supervised the graduation projects of many senior students.

Affiliations

AIA

- American Institute of architects, member since 2007.

ASHREA

- American Society of Heating, Refrigerating and Air-Conditioning Engineers, member since 2008.

RIBA

- Royal Institute of British Architects, member since 2015.

SAUDI UMRAN SOCIETY

- member of the Saudi Umrans Society (Al Baha Chapter) since 2018.

Research Websites

- <http://jamalg.net/>
- <http://www.de-vista.com/>

Research Activities

PUBLICATIONS (IN PRESS)

- Alghamdi, J. et al. 2017. Thermal energy storage technologies for Zero Carbon Housing in the UK. Energy and Buildings 55. P

CONFERENCES

- Carbon neutral environment by 2016: Zero carbon or Passivhaus. 2015, Cardiff University. Cardiff, UK
- WSA RESEArchi Conference: Thermal energy storage in the domestic sector. 2016, Cardiff University, Cardiff, UK.

General contribution at Albaha University

COMMITTEE WORK

- I have been on the Engineering Library Development Committee from 2010-2012.
- Member in the Architecture Department Curriculum Development Committee 2010-2011.
- Architecture and Civil Engineering Training Program Committee 2012.
- Invited to give a lecture titled: "*The future of sustainable architecture in the Kingdom of Saudi Arabia*" during the building and construction exhibit in the Dharan City 2018.
- Member of several research and administrative committees (in the department and outside it).

ADMINISTRATIVE WORK

- I was the Chair of the architecture summer training examining board (2011-2012).
- I have also been an examiner for the Architecture department final undergraduate program (2010-2012).
- Vice dean of the Studies and Consulting Services Institute
- Member of multiple research and academic juries

TUTORIAL AND OTHER RESPONSIBILITIES

- Taught several topics in the intermediate program for non-graduate student known as "Tajseer" in 2011.
- Participated in the

OTHER ADMINISTRATIVE EXPERIENCE

- In 2011, I redesigned the comprehensive graduate exams and the core graduate training course.
- Co-coordinated the Architecture Department Engagement Program to help promote the department within the local community (2012).

Research interests

- Sustainable built environment in general and in domestic sector specifically.
- Zero-carbon house and Passivhaus energy performance in temperate and hot-arid climates.
- Operational and embodied energy reduction in domestic buildings.
- Open-source environment monitoring systems performance and implementation into building research.
- Implementation of new building technologies in the Kingdom of Saudi Arabia.
- Thermal energy performance of local architecture in the middle east.
- Solar, wind and thermal-pumps energy potential input in reducing energy consumption in domestic buildings.