

Ali Khadimallah

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Permanent Resident of Canada since 2018

49 Gilmerton Court
Cambridge UK

EDUCATION

University of Houston
Ph.D. in Mechanical Engineering

Houston, TX
Aug 2012-Aug 2015

Tunisia Polytechnic School
B.S. and M.S. in Mechanical Engineering

Tunis, Tunisia
Sep 2006-Sep 2011

PROFESSIONAL EXPERIENCE

TWI Ltd
Project Leader

Cambridge, UK
Oct 18-Present

- TWI Ltd is one of the world's foremost independent research and technology organizations, with expertise in materials, joining and engineering services.
- I am contributing to the business development of my section by developing opportunities with single clients (SCPs) and identifying public funding routes for collaborative projects. During the last two months alone, I have prepared and submitted a 700,000 GBP proposal to a client in Asia and one 1.4 million GBP proposal to a UK public funding body. I directly contributed to the production of at least 4 other proposals.
- TWI Ltd and Lloyd's Register Group started a new venture 'Fullagar Technologies Ltd'. I fully produced the new company's business plan, products business cases and several marketing materials. I am also representing the company in several exhibitions and workshops.
- I am managing the technology development of one of Fullagar products: a state-of-the-art device to detect corrosion and predict failures in oil and gas pipelines.
- I am scientifically active: in 2019, I have 1 journal publication and 3 conference papers. My scientific efforts are now oriented towards providing engineering solutions to the industry and developing products that can be commercialized and exploited.

University of Houston
Postdoctoral Fellow

Houston, TX
Dec 2015-Jan 2017

- I worked on an industrial project funded by an association of oil and gas companies in Texas. My work consisted of investigating damage causes in oil and gas heat exchangers to save the industry millions of dollars in financial losses.
- I examined hundreds of pages of engineering designs and documents and developed an advanced insider knowledge of the oil and gas industry real challenges.
- I was the lecturer of the undergraduate materials science laboratory at the department of mechanical engineering during the summer of 2017.

ESI Group
Application and Support Engineer

Tunis, Tunisia
Nov 2011-Jun 2012

- ESI Group is a multinational, world-leading provider of virtual prototyping, engineering and software solutions.
- I was a member of the crash simulations team. I engaged in discussions with European clients to deliver software solutions to enhance the safety requirements for automakers.
- I used several engineering tools, namely numerical modelling, to address clients' needs.

LEADERSHIP EXPERIENCE

University of Houston
Teaching Assistant and Lecturer

Houston, TX
Aug 2013-Aug 2015

- Independently instructed the materials science lab given to engineering undergraduate students.
- Assisted in teaching 2 mechanical engineering courses: Introduction to Mechanics and Experimental Methods.
- Prepared course material including lab experiments, lectures, exams and homeworks.

SKILLS

- Familiar with several microstructural characterization techniques such as: SEM, XPS, EDS and XRD.
- Hands-on experience with mechanical testing and powder processing techniques.
- Proficient with MS Office, ABAQUS, MATLAB and AutoCAD.
- Bilingual in English and French.

SELECTED PUBLICATIONS

Please visit: <https://scholar.google.com/citations?user=gqwSbs4AAAAJ&hl=en>