Curriculum Vitae _ *Ahmed Falh Hasan AL-Gailani*

Objective .

To earn a position of responsibility in the fields of Materials Engineering and Materials Design (Process modelling, Welding, Tool wear, and Material testing and inspection, Powder technology, Corrosion, Radiography), that enables me to utilize my skills and theoretical expertise to deal with industrial problems. In addition, my postgraduate degrees enable me to university teaching and working.

Personal Information .

Academic degree:	Assistant Professor
Scopus ID:	57206433211
Researcher ID:	E-9016-2019
ORCID:	0000-0003-1547-1908
h – Index:	2
Birth Date & Place:	September, 05, 1976 – Iraq
Nationality:	Iraqi
Passport Number:	**A14913358** valid until January 2027
Marital Status:	Married – Four children
Mobile:	Iraq\+964 7736458960
Email:	ahmedfalh.eng@gmail.com and ahmedfalh@engineering.uodiyala.edu.iq
Website:	www.uodiyala.edu.iq
License:	Iraqi International Driving License.
Postal address:	Department of Chemical Engineering, College of Engineering, Diyala University, Baquba City, Diyala Governorate, ZIP 32001, Iraq.

Professional Strength and Skills .

- Very effective in Friction Stir Welding (FSW), high viscous flow modeling using Computational Fluid Dynamics (CFD), Tool wear in FSW. Effective in inspection, measurement and material testing and very effective in powder technology.
- Wide theoretical knowledge in most subject of mechanical engineering such as engineering material, metallurgy and phase diagram, manufacturing technology, fluid flow, failure analysis.

Educational Qualifications .

- PhD. Material design and material engineering, University of Nottingham, Nottingham, England -UK 2012 –2016

- MSc. Extractive metallurgy, University of Technology Baghdad, Iraq. (English Curriculum). 1999-2002
- B.Sc. Metallurgy Engineering, University of Technology Baghdad, Iraq. (English Curriculum). 1994-1999

Memberships and Academic positions .

- Member of Scientific Committee of Materials engineering department - College of Engineering – Diyala University 2019 till now.
- Head of Chemical Engineering Department - College of Engineering – Diyala University since January 2017-2019.
- Diyala University, College of Engineering, Iraq. Lecturer from 2005-2011 and since October 2016 till now.
- Member of Scientific Committee of Chemical engineering department - College of Engineering – Diyala University 2017 till now.
- Coordinator of communication department from 2007-2011- College of Engineering – Diyala University
- Director of research and development unit - College of Engineering – Diyala University from 2005-2007.
- Member of Iraqi Engineers Union (IEU) since 1999 till now.

Training and Courses .

- Public speaking skill for PGR teachers 08/06/2016
- Performance in lecturing 15/03/2016
- Introduction to C for engineering programmers 11,18/02/2016
- MATLAB for engineering programmers 09,14/12/2015
- A practical look at core teaching skills 03/12/2015
- Supporting students doing undergraduate projects and dissertation 09/11/2015
- Quantitative methods for engineering 02,06/06/2014
- Marking and assessment 08/11/2013
- Presentation skills :structure and technique 25/10/2013
- Centre for English language education, presessional programme, University of Nottingham, No ttingham, England 05/01/2012 - 29/06/2012
- IELTS, test 2012

- TOEFL ,ITP, test 2011
- Training course ,"Dazy lab and sensor technology" Freiberg, Germany. 4-10/1/2010
- Trainer in CSP (IRD),INC "Business Management" Iraq. April 2008 to May 2009
- English Language Certification, College of Languages, Baghdad University, Iraq 1998
- Methods of Teaching Certification College of Education, Diyala University, Iraq. 2003
- Computer Programming Certification, University of Technology, Baghdad –Iraq. 1999

Languages .

- English: Written and spoken (Excellent)
- Arabic: Mother tongue.

Employment History (Academic & Technical) .

Diyala University – College of Engineering (2005 – till now)

Location: Diyala – Iraq

Position: Head of Chemical Engineering Department-2017-2019.

Academic degree: Lecturer

Description: Teaching: Properties of engineering materials for the third year, engineering mechanics and strength of the material. Engineering drawing and AUTOCAD for the first class. Management & economic engineering for the fourth class, Corrosion, Third Year, Material selection year four material department. .

The University of Nottingham - Faculty of engineering

Location: Nottingham – England

Position: PhD researcher

Academic degree: course demonstrator & assessor and research group member

Description: demonstrator & assessor MM4 CFD, Computational Fluid Dynamics (M.Eng. and B.Eng. Class). Research group member in Gas Turbine& Transmissions Research Centre.

Supervision of Theses and dissertations `

Reviewer and referee

Reviewer and referee in:

https://publons.com/researcher/1219679/ahmed-falh-hasan/

1. International Journal of Engineering & Technology
2. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences
3. Diyala Journal of Engineering Sciences.

4. Scientific International Conference-Najaf
5. International Scientific Conference of Engineering Sciences

Awards and Prizes

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Membership of journal editorial board

International Journal of Materials Science and Applications.

Published Research Papers .

o	Title of research	Journal name	Publisher or hosting	ISSN
1	Numerical study and experimental validation of the effects of orientation and configuration on melting in a latent heat thermal storage unit. https://doi.org/10.1016/j.est.2019.04.013	Journal of Energy Storage, 2019.	Elsevier	ISSN: 2352-152X
2	CFD modelling of friction stir welding (FSW) process of AZ31 magnesium alloy using volume of fluid method. https://doi.org/10.1016/j.jmrt.2018.11.016	Journalof Materials Research and Technology 2019	Elsevier	ISSN: 2238-7854
3	Numerical study on the effect of the location of the phase change material in a concentric double pipe latent heat thermal energy storage unit https://doi.org/10.1016/j.tsep.2019.03.007	Thermal Science and Engineering Progress,2019	Elsevier	ISSN:2451-9049
4	A numerical methodology for predicting tool wear in Friction Stir Welding.	Journal of Materials Processing Technology. 2017. 241: p.129-140.	Elsevier	0924-0136
5	A numerical comparison of the flow behaviour in Friction Stir Welding (FSW) using unworn and worn tool geometries.	Materials & Design, 2015. 87: p. 1037-1046.	Elsevier	0264-1275
6	A. Effect of cooling rate on the mechanical properties of dual phase steel welding.	Journal of development and engineering, Vol.14, No.1, 2010.	Published by Al Mustansiriyah University, Iraq	2520-0917
7	A. Use of Artificial Neural Network for Estimation of the Dissolved of Rutile Ore.	Diyala Journal for pure sciences, Vol 7, No. 2, 2010.	Published by Diyala University, Iraq	2222-8373
8	A. State some mechanical properties for Al-alloy welded by seam welding technique.	Diyala journal of engineering sciences, Vol. 3, No.1, 2010.	Published by Diyala University, Iraq	19998716
9	A. Experimental study for preparation and evaluation the mechanical properties of composite material	Diyala journal for applied researchers, Vol.4, No. 1, 2008.	Published by Diyala University, Iraq	1992-0784
10	Preparation acid resistance ceramic from Iraq ore.	Diyala Journal of applied researchers, Vol.2, No.1, 2006.	Published by Diyala University, Iraq	1992-0784

11	A. Manufacturing of high frequency transformer core from Nickel ferrite.	Journal of Diyala education, No.22, 2006.	Published by Diyala University, Iraq	
12	A. Effect of mullite phase on some properties of hard porcelain.	AL-Fatih Journal, No.27	Published by Diyala University, Iraq.	1996-8752
	The Role Of Composite Phase Change Material On The Thermal Performance Of A Latent Heat Storage System: Experimental Investigation 2019	*Journal of Harbin Institute of Technology (New Series).*	*Under reviewing*	
	Laser Drilling Of Poly-Methyl Methacrylate Pmma,	*International Journal Of Applied Science And Engineering (IJASE).*	*Under reviewing*	

Conferences .

No	Conference	Paper title	Proceeding or journal name
1	1st- International Scientific Conference of Engineering Sciences - 3rd Scientific Conference of Engineering Science (ISCES) 2018. Iraq	Comparison and optimization design methodology for open-loop subsonic wind tunnel	DOI: 10.1109/ISCES.2018.8340551 Publisher: IEEE https://ieeexplore.ieee.org/document/8340551
2	TriboUK 2015 .	A numerical Methodology for calculating tool wear in Friction Stir Welding "A".	In Tribo UK conference. 2015. Loughborough University
3	First Scientific Conference in Engineering Sciences, Dailya University, College of Engineering, Dec. 22-23, 2010. Iraq.	A. State strain and deformation for polymer composite material by using numerical solution.	Diyala Journal for Engineering Sciences, special issue. ISSN 1999-8716.
4	AME2007 conference. 2007. UKM- Malaysia.	Computer added predication of advance ceramic laser sealing "	AME2007 conference. UKM

Published Books

No	*Book title* and publisher	ISBN
1		

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SCOPUS https://www.scopus.com/authid/detail.uri?authorId=56902240900

Research Gate https://www.researchgate.net/profile/Ahmed_Hasan6

Acadimeca.edu https://uodiyala.academia.edu/AhmedHasan

Google Scholar https://scholar.google.com/citations?user=jkAUA3IAAAAJ&hl=en

Publons https://publons.com/author/1219679/ahmed-falh-hasan#profile