

# Curriculum Vitae

## **Personal Information**

Surname: Hafidh

Given Name: Raad Suhail Ahmed Adnan

Birth Date: May 2<sup>nd</sup> 1974

Birth Place: Baghdad, Iraq

Major: -Metallurgy Engineering, specialization: -Smart Alloys

E-mail : 130013@uotechnology.edu.iq , [raadhafidh@gmail.com](mailto:raadhafidh@gmail.com)

Web Page: - <https://mae.uotechnology.edu.iq/index.php/s/cv/1081-raad-s-ahmed-adnan>

Profession: University Lecturer (Assistant Lecturer) Since March 15<sup>th</sup> 2002,

## **University**

- University of Technology, Production Engineering and Metallurgy  
Department Oct 1992- Dec 1997

## **Post-Graduation**

1. University of Technology, Production Engineering and Metallurgy  
Department Oct 1998- Jan 2002
2. University of Technology, Production Engineering Metallurgy  
Department Oct 2011-Dec 2016

## **College Degrees**

1. BSc. Production engineering Metallurgy & Production Engineering  
Department University of Technology Baghdad Iraq Dec 1<sup>st</sup> 1997
2. M.Sc. Metallurgy Engineering Metallurgy & Production Engineering  
Department University of Technology Baghdad Iraq Jan 30<sup>th</sup> 2002



3. Ph.D. Metallurgy Engineering Metallurgy Engineering Metallurgy & Production Engineering Department University of Technology  
Baghdad Iraq Dec 21<sup>th</sup> 2016

### **Thesis**

1- PhD "Effect of Germanium, Tellurium and Cerium additions and Thermo Mechanical Treatment on Cu-Al-Ni Shape Memory Alloys "Supervised by Dr.(Prof). Muna Khiether Abbass and Dr. (Asst.Prof). Muthir Mohammed Al-Kubaisy, Production Engineering and Metallurgy Department University of Technology-Iraq 2016

2- MSc "Computer Aided Design of Riser & Gating System in Casting" Supervised by Dr. (Assistant Prof.). Nawal Izzet Abdul Latif, Production Engineering and Metallurgy Department University of Technology-Iraq 2002

### **Academic Posts**

1. Assistant Lecture Department of Materials Engineering University of Technology (15<sup>th</sup> March 2002 -24<sup>th</sup> May 2010)
2. Lecturer Department of Materials Engineering University of Technology (24<sup>th</sup> May 2010 – till now)

### **Administrative Position**

- Head of Internet and IT Unit 2021- 2023

## **Committees**

- 1- Post-Graduation Comity Rapporteur 2002 – 2005
- 2- Scientific Comity Rapporteur 2006- 2008
- 3- Educational Supervision Comity Rapporteur 2009
- 4- Member of the Examinations Comity 2009-2011
- 5- Head of Department Web site committee (2016-till now)
- 6- Head of Materials Engineering Publication's Guide Committee (2016-till Now)
- 7- Member of the Media Committee 2017-2018
- 8- Member of The Department Website Translation Committee since 2017-2018. 2023
- 9- Head of the E-learning Committee 2018-2022
- 10 Head of The Department Materials Engineering Website Committee Since 2018-2023
- 11- Member of the Stimulation of Scientific Performance committee since 2020- till now
- 12-Head of The Internet Unit in the Department of Materials Engineering 2021 -2023
- 13-Head of Cameras and Internet Maintenance Committee 2023-2024

## **Teaching Experience**

### **1<sup>st</sup> Lectures**

- 1- Introduction to Computer Science & Applications 1<sup>st</sup> Class 2002-2011, 2014-2018

2- Casting Technology 4<sup>th</sup> Class General Branch 2014-till Now

3- Advanced Metallic Materials and Manufacture (Postgraduate MSc.) 2020-2021

4. Smart Materials 4<sup>th</sup> class General Materials Branch 2023- till now

**2<sup>nd</sup> Laboratories**

1. Casting & Welding Technology 4<sup>th</sup> Class Lab Metallurgy & Production Department 2001

2. Computer Science & Applications lab 2002-2018

3. Material Selection Lab 3<sup>rd</sup> class 2004 –2007

4. Powder Metallurgy Lab 3<sup>rd</sup> class 2006

5. Non -Destructive Tests Lab 3<sup>rd</sup> class 2007 -2009,2012-2013

6. Manufacture Process Lab 3<sup>rd</sup> class 2010

7. Materials Engineering lab 1<sup>st</sup> class 2011

8. Metals Lab 2<sup>nd</sup> class 2012-2013

9. Casting Technology 4<sup>th</sup> Class General Materials 2014-2016, 2023-tillnow

10. Casting Technology for expandable Molds 4<sup>th</sup> Class General Materials 2017- 2023

11. Casting Technology for Permanent Molds 4<sup>th</sup> Class General Materials 2017- 2023

12. Metallurgy Lab 2<sup>nd</sup> Class 2021-2022

13. Selection of materials Lab 4<sup>th</sup> class 2023-till now

## **Postgraduates Supervision**

### **1.Master Studies**

1. “Effect of Ceramic Addition on Microstructure and Wear Behavior of Cu-based Shape Memory Alloy “Dina Farhan Hammadi 2019- 2022  
(Graded: Excellent)
  2. Effect of Thermo-Mechanical Treatment on Corrosion Resistance and Wear Behavior of Cu-based Shape Memory Alloy” Hayder Adnan Dawood 2020-2023 (Graded Excellent)
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### **Conferences**

- 1- 2<sup>nd</sup> National Conference for Electrical, Electronic & Computer Engineering University of Technology December 2001
- 2- 1<sup>st</sup> Joint Engineering of Saddam University & Military Production Board July 2002
- 3- 8<sup>th</sup> Scientific Conference University of Babylon April 2002
- 4- 2<sup>nd</sup> Engineering Conference of Al-Khuarsmi Engineering College University Of Baghdad April 2008
- 5- 1<sup>st</sup> Conference of Materials engineering College University of Babylon December 2010
- 6- 6<sup>th</sup> International Conference of Materials Characterization and Processing (ICMPC 2016) GRIET Hyderabad India march 2016
- 7- 8<sup>th</sup> International Conference of Materials Characterization and Processing (ICMPC 2018) GRIET Hyderabad India march 2018
- 8-9<sup>th</sup> International Conference of Materials Characterization and Processing (ICMPC 2018) GRIET Hyderabad India march 2019

- 9- 1<sup>st</sup>International Conference of Materials Engineering and Science  
Istanbul-Aydin University Istanbul Turkey 2018.
- 10-2<sup>nd</sup> International Conference of Materials Engineering and Science  
University of Technology-Iraq –Iraq 2019
- 11-3<sup>rd</sup> International Conference of Materials Engineering and Science  
IconMEAS 2020 University of Nahrain –Iraq 2020
- 12- The Third International Conference on Electromechanical Engineering  
and its Applications (ICEMEA-2022) University of Technology -Iraq ,  
Baghdad-Iraq 2022
- 13-5<sup>th</sup> International Conference of Materials Engineering and Science  
IconMEAS 2022 University of TopKapi –Istanbul Türkiye 2022
- 14-13<sup>th</sup> International Conference of Materials Characterization and  
Processing (ICMPC 2022) GRIET Hyderabad India April 2022
- 15 -the 14<sup>th</sup> International Conference of Materials Characterization and  
Processing (ICMPC 2023) GRIET Hyderabad India April 2023
- 16- the 7<sup>th</sup> International Conference on Materials Engineering  
and Nanotechnology 2023 (ICMEN 2023); 04-05 Nov, Kuala Lumpur,  
Malaysia

### **Acknowledgments**

- 37 from the Head of the Department of Materials Engineering
- 7 from the President of the University of Technology
- 6 from the Minister of Higher Education and Scientific Research
- 1 from the Deputy Minister of Higher Education and Scientific Research
- 2 congratulatory letters from the President of the University of Technology
- 1 congratulation letter from the Minister of Higher Education and Scientific  
Research

## **Awards**

1. Best Oral Presentation in the 1<sup>st</sup> International Conference of Materials Engineering and Science Istanbul-Aydin University Istanbul Turkey 2018.

## **Publications**

### **1-Papers**

- 1- Computer Aided Design of riser & gating System for Al-4% Cu Alloy with Dr. Nawal Izzet Abdul Latif (*Journal of Al-Nahrain University* Vol.5 No.1 2002) (In Arabic)
- 2- Computer aided Selection & Design of Silicon Carbide Amount Added to 356 Al-Alloy in Car Brakes with A. Lecturer Iman Adnan (*Journal of University of Babylon* Vol.15 No.5 2006) (in Arabic)
- 3- Computer Aided Design of gating System in Die Casting (*Journal of Engineering & Technology* Vol.26 No.10, 2008)
- 4- Runner Length effect on Microstructure & Grain size for Al-Mg Alloys (*Journal of Engineering & Technology* Vol.28 No 13 2010) (In Arabic)
- 5- Computer Aided Design of Mg-Alloy Application in Die Casting with S. Lecturer Iman Adnan (*The Iraqi Journal of Mechanical and Materials engineering Special Issue* (B) 2011) (In Arabic)
- 6- Muna Khiether Abbass, Munther Mohamed Radhy, Raad Suhail Ahmed Adnan, "Effect of Tellurium Addition On Thermo-Mechanical Characterization and Shape Memory Properties for Cu-Al-Ni Shape Memory Alloys", *International Journal of Advances in Science, Engineering and Technology(IJASEAT)*, Volume-4, Issue-2, Spl. Iss-2, pp 161-164 ,2016 , IJASEAT-IRAJ-DOI-4698

7- Muna Kheither Abbass, Munther Mohamed Radhy, Raad Suhail Ahmed Adnan," The Effect of Thermo-Mechanical Treatment on Mechanical Properties & Microstructure for (Cu-Al-Ni) Shape Memory Alloy" *Journal of science and Technology, Volume.34, No.13(A), PP, 2016,*

DOI: 10.1016/j.matpr.2017.01.016

8- Muna Khethier Abbass, Munther Mohamed Radhy, Raad Suhail Ahmed Adnan, " The effect of Germanium Addition on Mechanical Properties and Microstructure of Cu-Al-Ni Shape Memory Alloy", *Materials Today: Proceeding, Volume 4 No.2, pp. 2017 , DOI*

DOI: 10.1016/j.matpr.2017.01.016

DOI: 10.1016/j.matpr.2017.01.016

9- Muna Khethier Abbass, Munther Mohamed Radhy, Raad Suhail Ahmed Adnan, " Effect of Ce Addition on Mechanical Properties and Shape Memory Effect of Cu-14%Al -4.5%Ni Shape Memory Alloy", *Materials Today: Proceedings IconMEAS 2019 Vol.20 ,2020, PP 452–460 ,*

doi.org/10.1016/j.matpr.2019.09.164

10- Muna Khethier Abbass, Munther Mohamed Radhy, Raad Suhail Ahmed Adnan “Computer Approach of Effect of 0.3 % of Ge, Te and Ce Additions

on Thermodynamic Properties and Shape Memory Effect of Cu-14%Al-4.5Ni Shape Memory Alloys” *Materials Today: Proceedings Volume 6, No. 5 (2018) PP .17602–17610. , https://doi.org/10.1016/j.matpr.2018.06.078*

11- Raad Suhail Ahmed Adnan “Effect of Sn Addition on Transformation Temperature and Thermal Properties for Cu-Al-Si Shape Memory Alloy” *IconMEAS Proceedings 2018 (2018 IOP Conf. Ser.: Mater. Sci. Eng. 454 012050) , DOI: 10.1088/1757-899X/454/1/012050*



- 12- Effect of Ce Addition on Mechanical Properties for Al-Si Alloys, International Journal of Advances in Science Engineering and Technology, Volume-7, Issue-3, Jul.-2019 PP.95-97, IJASEAT-IRAJ-DOI-16009
- 13- Effect of Te Addition on Thermal Effect and Activation Energy of Cu-Al-Ni Shape Memory Alloy (Materials Today Proceedings: ICMPC -2019 Hyderabad-India Vol 18, PP.2242–2249) , <http://10.1016/j.matpr.2019.07.004>
- 14- Raad Suhail Ahmed Adnan “Effect of Sn Addition on Shape Memory Effect and Mechanical Properties for Cu-Al-Si Shape Memory Alloy” (Engineering and Technology Journal Vol.38 Part A, No.08, PP 1178-1186 .2020)
- 15- effect of Tin Addition on Microstructure and Corrosion Resistance of Cu-Al-Ni Shape Memory Alloy (Materials Today: Proceedings: IconMEAS 2020, Vol. 42 (2021) PP 2119–2124), <http://doi.org/10.1016/j.matpr.2020.12.295>
- 16- Effect of Tin Addition on Wear Resistance and Microstructure of Cu-Al-Ni Shape Memory Alloys) (Materials Today: Proceedings: ICMPC 2022, Vol. 42 (2022) PP 2119–2124), Volume 62, Part 6, 2022, Pages 3544-3547 <https://doi.org/10.1016/j.matpr.2022.04.395>
- 17- Deposition of CaO to Protect Carbon Steel by Electrophoretic Method (with Dr. Hiba. A. Abdullah and Dr Rana Afif Anae) (Materials Today: Proceedings: ICMPC 2022, Volume 62, Part 6, 2022, Pages 4556-4561) , <https://doi.org/10.1016/j.matpr.2022.05.246>
- 18- The Effect of Silicon Carbide Addition on the Transformation Temperatures and Wear Resistance of Cu-Based Shape Memory Alloys

(With Dina F. Hammadi and Dr. Mohammed A. Al-Sarraf) (Materials Today: Proceedings: ICPCM 2022, Volume 62, Part 10, 2022, Pages 6068-6076, <https://doi.org/10.1016/j.matpr.2022.04.1010>)

19- The Effect of CeO<sub>2</sub> Addition on Transformation Temperatures and Wear Resistance of Cu-Al-Ni Shape Memory Alloys (with Dina F. Hammadi and Dr. Mohammed A. Al-Sarraf) (The Journal of Engineering and Technology Vol. 40 December 2022.)

20- Characteristics, Morphological, and Electrotechnical Studies of Al-12Si-xTe Alloys (with Dr. Hiba. A. Abdullah and Dr. Rana Afif Ananee) (under review)

21- The Effect of Tellurium Addition on Mechanical Properties and Wear Behavior of Al-12%Si Alloy (with Dr. Hiba. A. Abdullah, Saja Amer Abdul Majeed (under review)

22- Effect of Thermo Mechanical Treatment on Shape Memory Properties and Wear Resistance of Cu-Al-Ni Shape Memory Alloy (with Haider Adnan Dawood) (accepted in The Third International Conference on Electromechanical Engineering and its Applications (ICEMEA-2022) July 19-20, 2022 Electromechanical Engineering Dept., University of Technology-Iraq Baghdad, Iraq) (unpublished in AIP Proceedings)

23- Effect of Thermo Mechanical Treatment on Microstructure and Corrosion Resistance of Cu-Al-Ni Shape Memory Alloy with Haider Adnan Dawood (Published in 5<sup>th</sup> IconMEAS 2022 Top Kapi University Istanbul *Materials Science Forum* ISSN: 1662-9752, Vol. 1078, pp 111-117)

24- Effect of Short Heat Treatment on Shape Memory Properties and Mechanical Properties of Cu-Al-Ni Shape Memory Alloy (with Dr Iman

Adnan Anonn, Dr. Sundus Shaker Noori, and Dawood Salman Dawood)  
(*Open Engineering* 2024; 14: 20240013)

25- The Effect of Solid Solution Treatment with Coating on Corrosion Properties of AZ91 Mg Alloy in Simulated Body Fluid with Noor Najm., Ali H. Ataiwi and Rana A. Anae (E-Published in materials today proceedings ICMPC 2023 Hyderabad )

26- The Relationship Between Thermo-Mechanical Treatment And The Properties Of CuAlNi Shape Memory Alloys with Iman Adnan Anoon, Ayad Naseef Jasim, Hayder Adnan Dawood and Mustafa A.Almaliki (Proceedings of the 7<sup>th</sup> International Conference on Materials Engineering and Nanotechnology 2023 (ICMEN 2023); 04-05 Nov, Kuala Lumpur, Malaysia Published in *Springer Proceedings in Physics* 1068, No.7, 2024)

27- Effect of Low-Temperature Heat Treatment on Microstructure and Corrosion Resistance of Cu-Al-Ni Shape Memory Alloy (with Dr. Iman Adnan Anonn) (under review)

28- Effect of Tungsten Addition on Mechanical Properties and Microstructure of Al-5%Si Alloy with Marwa Ayad Abass (under review)

## **2-Thesis and Dissertations**

- 1- Effect of Ceramic addition on Wear Resistance and Microstructure of Cu-Based Shape Memory Alloys Mater Thesis (with Dr, Mohammed Ausama Al-Sarraf) Master Student Dina Farhan Hammadi. 2022
- 2- Effect of Thermo –Mechanical Treatment on Shape Memory Properties and Corrosion Resistance of Cu-Based Shape Memory Alloys. Mater Thesis by Haider Adnan Dawood 2022

## **Peer Reviewing**

Engineering And Technology Journal 2

Journal Of Engineering 9  
University of Dyala Conference 1  
The University of Technology 1  
Materials Today: Proceedings 3  
Al-Mohandas Journal 1  
Open Engineering 2  
Results in Engineering 3

### **Organization and Non-Government Origination**

- 1- Iraqi Engineers Union since 1997
- 2- Iraqi Engineers Society since 2001
- 3- Member of Baghdad College Alumni Society Since 2018

### **Training Course and workshop**

1. "Computer Application in Casting " Continuing Teaching Center,  
University of technology October 2004
2. "Google Classroom workshop" in Materials Engineering Department  
March 2018.
3. "Computer Application in Casting Technology workshop " Department of  
Materials Engineering, March 2019

### **Certificates**

1. Training of Trainers for Electronic Education US Embassy, IREX  
2020