

# The Curriculum Vitae



**Raid Salih Jawad**

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**Date of Birth:** 14/11/1970 in Deyala / Iraq  
**Marital status:** Married  
**Place of work:** Energy and Renewable Energies Technology  
Center (ERETC)-University of Technology  
**Languages spoken:** Arabic, English  
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## Academic Record

**B.Sc.:** 1996- Military Engineering Collage - Mechanical Eng. Dept.  
**M.Sc.:** 2003- Chemical Engineering Department-Technology  
University-Baghdad.  
Specialization- Electrochemical coating  
**Ph.D.:** 2012-USCT- GGSIP University – New Delhi- India.  
Specialization- Nano technology

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## Scientific degrees

**Assistant lecturer:** 1/10/1996

**Senior lecturer :** 12/9/2012

**Assistant Professor:** underprocessing

**Professor:**

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## Practical Experiences & Positions

1. 1989-1996 in military Engineering College as student- Baghdad.
2. 1996-1998 an Engineering officer in Department of Registration and follow-up - Scientific and Technical Affairs Department in military Engineering College.
3. 1998-1999 an Classrooms officer in Department of Registration and follow-up - Scientific and Technical Affairs Department in military Engineering College
4. 1999-2000 Follow-up officers in the Department of Chemical Engineering - Military Engineering College- Baghdad.
5. 2000-2003 MSc Student in Department of Chemical Engineering - Military Engineering College- Baghdad.
6. 2003-2005 Lecturer in Chemical Engineering Department- Technology University Baghdad, Iraq.
7. 2005-2007 Lecturer, and Researcher in ERETC - Technology University Baghdad, Iraq.
8. 2007-2012 PhD student in USCT- GGSIP University- New Delhi- India.
9. 2012-2013 Lecturer, and Researcher in ERETC - Technology University Baghdad, Iraq.

- 10.2013-2016 Head of Fuel Energy Department ERETC - Technology University Baghdad, Iraq.
- 11.2016 up to now Head of PV Energy Department - ERETC - Technology University Baghdad, Iraq.
- 12.2013 up to now Member of the Scientific Committee on Energy and Renewable Energy Technology Center.
13. 2013 up to now Member of the Board of Directors in the energy and Renewable Energy Technology Center - University of Technology.
14. 2012 up to now Member in the Iraqi Nanotechnology Association .
15. ٢٠١٢ up to now Chairman of the Technical Committee on Energy Technology Center, renewable energies.
16. 2013 up to now Member of the Committee to assess the candidates for school vacations in ERETC - Technology University Baghdad, Iraq.
17. 2014-2015 Chairman of the analysis of performances of the Center for Energy and Renewable Energy Technology.
18. 2013-2015 Chairman of the analysis of the main presentations Technological University

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### Acknowledgment

1. A certificate of appreciation From Minister of Higher Education, Iraq 2011.
2. A certificate of appreciation From Minister of Higher Education, Iraq 2013.

3. A certificate of appreciation From President of University of Technology, Iraq 2015.
4. A certificate of appreciation From Dean of production and Metallurgical Eng. Department, University of Technology, Iraq,2016.
5. A certificate of appreciation From the manager of ERETC- University of Technology, Iraq 2016.
6. Acknowledgment from the Minister of Higher Education, Iraq, 2013.
7. Acknowledgment from the Minister of Higher Education, Iraq, 2013.
8. Acknowledgment from the Minister of Higher Education, Iraq.
9. Acknowledgment From Undersecretary of the Ministry of Higher Education and Scientific Research, 2016.
10. Acknowledgment from the President of University of Technology, Iraq, 2011.
11. Acknowledgment from the President of University of Technology, Iraq, 2012.
12. Acknowledgment from the President of University of Technology, Iraq, 2014.
13. Acknowledgment from the President of University of Technology, Iraq, 2015.
14. Acknowledgment from the President of University of Technology, Iraq, 2015.
15. Acknowledgment from the President of University of Technology, Iraq, 2015.
16. Acknowledgment from the manager of ERETC- University of Technology, Iraq, 2011.
17. Acknowledgment from the manager of ERETC- University of Technology, Iraq, 2014.
18. Acknowledgment from the manager of ERETC- University of Technology, Iraq, 2015.

19. Acknowledgement from the Dean of the College of Engineering - Karbala on 05/02/2015.
  20. Acknowledgement from the Dean of Technical Institute - Technical University on 19.03.2015.
  21. Acknowledgement from the head of production and Metallurgical Engineering department university of Technology, Baghdad -Iraq. 2015.
  22. Acknowledgement from the President of the Biomedical Eng. Department, University of Technology, Iraq, 2015.
  23. Acknowledgement from the Petroleum Engineering, University of Technology, Iraq, 2016.
  24. Acknowledgement from the President of the ERETC, University of Technology, Iraq, 2017.
  25. Acknowledgement from the General Director of Standardization and Quality Control / Department invention - Ministry of Planning – Iraq-2017.
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### Honors and Awards

- 1. First prize for the Prime Minister in the seventh sovereignty for inventors Festival 2013.**
- 2. Third prize to the Prime Minister in the seventh sovereignty for inventors Festival 2013.**

## Approved Patent

1. **C02F1/441-Novel Mobile Technique for High Purity Water Production Utilizing of Nanotechnology With Multi Power Resources.2016**
2. **C23F11/164-Addressing the problems of corrosion of oil pipelines using environmentally friendly materials.2016**
3. **F23D91/04-Novel and Design un Economic Cooker For Cooking and Hot Water Processing.2017**

## Patent under processing

**I have 15 patent submitted for approved**

## Researches and Books

### 1. Journal Articles

1. RS Gawaad, SK Sharma, SS Sambhi. Comparative study of Nano and RO membrane for sodium sulphate recovery from industrial wastewater, ARPN Journal of engineering and applied Sciences 6. 114, 2011.
2. RS Jawaad, KF Sultan, AH Al-Hamadani .SYNTHESIS OF SILVER NANOPARTICLES. ARPN Journal of Engineering and Applied Sciences 9 (4), 586-592. 2011.
3. RS Gawaad, SK Sharma, SS Sambhi Nanofiltration Application for Concentrating Aqueous Waste Stream to Recover Sodium Sulphate. International Review of Chemical Engineering 3 (4), 481-486, 2011.
4. RS Gawaad, SK Sharma, SS Sambhi. Sodium Sulphate Recovery from Industrial Wastewater Using Nano-Membranes: a Review

- International Review of Chemical Engineering 3 (3), 392-398. ۲۰۱۱.
5. Raid Slaih Jawad, Safaa N Abduljabar Nanofiltration Means (Reduced in Pollution, Water Consumption, and Win Money. JAK International Journal of Computation and Applied Sciences IJOCAAS 1 (Issue 3. ۲۰۱۶.
  6. RS Jawad Novel Mobile Technique for High Purity Water Production Utilizing of Nanotechnology With Multi Power Resources. AR Patent C02F1/441. ۲۰۱۶.
  7. RS Jawad. Nanoparticles (Nps) Leverage In Lithium-Ion Batteries Performance. International Journal of Pharmacy & Technology 8 (3), 18995-19004. ۲۰۱۶.
  8. AH Al-Hamdani, SI Ibrahim, RS Jawad, R Nader, D Adnan, M Jabir. Non-linear Properties Measurement for Liquid Solution of  $\alpha$ -Chlorophyll Dissolved in Acetone. International Journal of Computation and Applied Sciences IJOCAAS 2 (1), 23-36. ۲۰۱۶.
  9. RS Jawad Address the corrosion problems in oil pipeline by using eco-friendly materials AR Patent C23F11/164, ۲۰۱۶.
  10. R.S. Jawad , A. Kadhim , S.M. Fayadh. Improvement of the Fatigue Resistance and Increase Its Life of Specimens of Naval Brass Alloy Using Laser Shock Wave Processing, TKA Journal of Nanoscience and Technology 1 (2), 69–72. ۲۰۱۶.
  11. Raid Salih Jawad, Ali. H. AL Hamdani, Sinan Salman Hamdi . Study of Nano Powder for Improvement the Mechanical Properties of Armor. DNA .Journal of Babylon University/Engineering Sciences 24 (1), 154- 163. ۲۰۱۶.
  12. Raed. S. Jawad, Abdulhadi Kadhim, Leiqaa A. Hameed. Spectral Study of Some Pharmaceuticals and Cosmetics Eng. & Tech. Journal, , , 33 (No.2 pat B), 172- 177. ۲۰۱۵.

13. RS Gawaad, SK Sharma, SS Sambhi. Nanofiltration Application for Concentrating Aqueous Waste Stream to Recover Sodium Sulphate. *International Review of Biophysical Chemistry (IREBIC)* 4 (4), 152-156, 2013.
14. Raid S. Jawaad MSA Khalid F. Sultan, Experimental Investigation of Heat Transfer Enhancement and Flow of Spiral Coil Heat Exchanger for Ag, Cu and ZrO<sub>2</sub> Nanofluids. *International Journal on Heat and Mass Transfer-Theory and Application* 1 (3) 2013.
15. R. S. Gawaad, SKS, SSS Comparative study of nano and RO membrane for sodium sulphate recovery from industrial waste water. *ARPN J. of Engineering and Applied Sciences* 6 (11), 1-6. 2013.
16. Raid Slaih Gawaad, SSSambhi, S.K. Sharma Nanofiltration and Waste Water Treatment of Textile Industry. *National Conference on Clean Technology and Clean Production (CTCP) 2008.*
17. AMJM Miqdam T Chaichan, Khaleel I Abass, Raid S. Jawad. Thermal performance enhancement of simple Trombe wall. *International Journal of Computation and Applied Sciences IJOCAAS* 2 (1), 33-40.
18. Safaa N. Abdul Jabbar The Relation between Fibonacci Sequence and (9, 19, and 29) Numbers *RSJ International Journal of Computation and Applied Sciences IJOCAAS* 2 (1), 19-22.
19. AK Razi J. Al-Azawi, Raid S. Jawad Mathematical Model of Reliability of Restored Technical System. *International Journal of Computation and Applied Sciences IJOCAAS* 2 (1), 23-26.
20. NHN A. Kadhim, Raid S. Jawad. Determination the wear rate by using XRF technique for Kovar alloy under lubricated condition *International Journal of Computation and Applied Sciences IJOCAAS* 2 (1), 1-5.



21. Raid S Jawad Ruaa H. Abass, Azhar M. Haleem, Mazin K. Hamid Antimicrobial Activity of TiO<sub>2</sub> NPs against Escherichia coli ATCC 25922 and Staphylococcus aureus ATCC 25923 .International Journal of Computation and Applied Sciences IJOCAAS 2 (1), 6-1.

### **Published Books:**

1. RAID SALIH JAWAD, Khalid.F. S. Nanofluids and Heat Transfer in Circular Tube. Lambert academic publishing. ٢٠١٦.
2. Raid Salih Jawaad , S.S.Sambi SKS. Nanofiltration Membrane For Recycling Sodium Sulphat From Aluminum Silicate Manufacturing Process. LAP Lambert acadimic Publishing 1, 133. ٢٠١٥.

### **Books Under Processing**

1. The energies of the Great Blue.
2. Renewable energies Reality and Challenges.
3. The mechanism of nanoparticles on microorganisms.
4. Magnesium oxide nanoparticles as an anti-bacterial.
5. Nanofiltration Membranes and water purification.

### **Referees:**

1. International Conference for Renewable Energies, UOT, Baghdad, Iraq, 2013.
2. International Conference for Iraqi Society of Engineers, Baghdad, Iraq, 2016.

3. the Central Organization for Standardization and Quality Control - Baghdad, Iraq.
4. Journal of Basic Education Collage of Baghdad, Iraq.
5. Journal of Technology University, Baghdad, Iraq.

### Professional Memberships

- **Member in the Iraqi Society of Engineering Since 2012.**
- **Editorial Board member of Scientific and Engineering Reports Journal.**
- **Editorial Board member of International Journal of Computation and Applied Sciences IJOCAAS.**