

Nouran Yussri Mohamed Morgan

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Passport Number: - A23462745 Expired AT :- 27/11/2025

Date and Place of Birth April 10, 1986 , Egypt.

Nationality Egyptian

Marital state Married

Candidate Profile

Over ten-years of scientific career in Sanitary & environmental Institute (SEI) at Housing and Building National Research Center (HBRC) with academic excellence and scientific success certificate. Experience gained from several projects in field of water and wastewater analysis and water quality assessment, Lecturer director in different training courses. The research interests cover treatment of water and wastewater using different eco-friendly and low cost environmental materials including biological, chemical, physical and mathematical modeling. Awarded the International Computer Driving License (ICDL) Certificate include Concepts of Information Technology (IT), Using the Computer and Managing Files, Word Processing, Spreadsheets, Database, Presentation and Information and Communication (11/2010). Skill Card Number : EGY000287429

Education

Academic Degree	University/School	General Specialization:	specific Specialization	Location	Grade	Year
Ph.D. Science	Faculty of Science, Damitta University	Environmental science	Water pollution	Cairo, Egypt	Awarded	27/7/2015
Professor Advisors:	El- Shafei, M.M (Housing and Building National Research Center) Rifaat abdel wahab (National Research Center) Mahmoud salem , Talaat abd el Menam. (Faculty of Science, Damitta University)					
Topic:	"Environmental Study on some selected treatment methods of Produced Water from Petroleum wastes"					
M.Sc. Science	Faculty of Science, Cairo University	Chemistry	Inorganic	Cairo, Egypt	Awarded	August , 2012
Professor Advisors:	A.M.Baraka (Faculty of Science, Cairo University) Maha El . Shafai, (Housing and Building National Research Center)					
Topic:	"Use of some industrial wastes and natural materials in phosphate removal from wastewater"					
B.Sc. Science	Faculty of Science, Cairo University	Chemistry – zoology		Cairo, Egypt	Good degree	May, 2008

Working Experiences

Job Title	Employer	Location	Year
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Ass. Professor	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St., Dokki, Giza, 11511, Egypt. P.O. Box: 1770 Cairo Tel: (+202)37617102, 37617092 Fax: 33351564, 37628736 e.mail: hbrc@hbrc.edu.eg www.hbrc.edu.eg	2020- till current
Job Description	Technical Supervisor of Chemistry lab for water and wastewater		
Researcher	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St., Dokki, Giza, 11511, Egypt. P.O. Box: 1770 Cairo Tel: (+202)37617102, 37617092 Fax: 33351564, 37628736 e.mail: hbrc@hbrc.edu.eg www.hbrc.edu.eg	12/2015 -2020
Job Description	Technical Supervisor of Chemistry lab for water and wastewater		
Assistant Lecturer	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St Dokki, Cairo, Egypt	6/2012-12/2015
Job Description	Proceed different water analysis and prepare my Ph.D. research work		
Chemist	Sanitary and Environmental Institute (SEI), Housing and Building National Research Center (HBRC)	87 El-Tahrir St Dokki, Cairo, Egypt	8/2008-6/2012
Job Description	<p>Proceed different water analysis and prepare my M.Sc. research work</p> <p>-Chemical analyses for different types of potable water and sewage water according to the Egyptian and international specifications.As pH, Conductivity ,Total solids ,Total dissolved salts(T.D.S),Biological oxygen demand B.O.D , Chemical oxygen demand (C.O.D), Chlorides ,Sulphates, Ammonia, Oil and grease, Nitrates , Nitrites ,Heavy metals ,e.g. : Fe, Mn, Cu, Zn, Ni, Cd and Co.</p> <p>Chemical tests for different type of pipes .Plastic pipes (effect of chemicals) ,Clay pipes (water absorption, acid and alkali resistance) ,Concrete pipes (contents of salts),Chemical tests for acid resistant bricks used in the lining of Holeman chambers (water absorption and chemical resistance) ,Salt contents of ground water and soil surrounding the construction materials (pipes) and materials used in constructing pipes networks (sand, gravels and aggregates) ,Chemical tests for vitreous canine sanitary appliances ,Water absorption ,Chemical resistances ,Resistance to staining and burning, Chemical testing of enameled cast iron sanitary ware Chemical testing of water proofing materials ,Chemical testing of chlorinated pesticide , polycyclic aromatic and organophosphorus compound.</p>		

Publications

1. Safwat .A .**Nouran Y. Mohamed** “Adsorption of Phenol onto Aluminum Oxide Nanoparticles: Performance Evaluation, Mechanism Exploration, and Principal Component Analysis(PCA)of Thermodynamics’2022.Adsorption Science&Technology <https://doi.org/10.1155/2022/1924117>.
2. Rasha saryel din, **Nouran Y. Mohamed** “Thermodynamic Equilibrium Kinetics of Sewage Sludge Ash Pellets for the Removal of Methylene Blue (MB) from Aqueous Solutions” Key Engineering Materials. <http://dx.doi.org/10.4028/p-vw0a4u>
3. Ahmed S. Mahmoud, **Nouran Y. Mohamed**, Mohamed K. Mostafa and Mohamed S.

- Mahmoud, (2021) "Effective Chromium Adsorption From Aqueous Solutions and Tannery Wastewater Using Bimetallic Fe/Cu Nanoparticles: Response Surface Methodology and Artificial Neural Network" *Air, Soil and Water Research*, 14: 1–14, <https://doi.org/10.1177/11786221211028162>
4. Ahmed S. Mahmoud, **Nouran Y. Mohamed** 2022 "Advanced Wastewater Treatment by Using Entrapped nZVI into Alginate (Ag) Biopolymer: Adsorption Isotherm, Kinetic Models, and Statistical Analysis" *Key Engineering Materials*. DOI: [10.4028/p-xygkon](https://doi.org/10.4028/p-xygkon)
 5. Safaa, M. Ragheb; **Nouran, Y. Mohamed**, "Hydroxyapatite / Chitosan Nanocomposite Materials as Potential Adsorbent for Cr Removal From Aqueous Solution" Riyadh, Saudi Arabia, 8th International Conference on Water Resources and Arid Environments (ICWRAE 8):680-690. 22-24 January 2019.
 6. Safaa, M. Ragheb; **Nouran, Y. Mohamed**; Ahmed Abd Magied, "Removal of Chromium from Tannery Wastewater using Untreated Bagasse: Kinetic and Isotherm Studies" Sharm El-Sheikh-Egypt, 11th International Conference on CONSTRUCTION GREEN AND SUSTAINABLE CONSTRUCTION (NTC 2019) 22-25 March 2019.
 7. Safaa, M. Ragheb; **Nouran, Y. Mohamed**, "Using household waste material for removal of heavy metals from water as an adsorbent for environmental remediation " Riyadh, Saudi Arabia, 8th International Conference on Water Resources and Arid Environments (ICWRAE 8):680-690. 22-24 January 2019
 8. Ahmed M. noureldin; **Nouran, Y. Mohamed**; Mostafa M. Mostafa, "SBR System Performance for Removing Organics from oil Wastewater" Sharm El-Sheikh-Egypt, 11th International Conference on CONSTRUCTION GREEN AND SUSTAINABLE CONSTRUCTION (NTC 2019) 22-25 March 2019.
 9. **Ahmed M. noureldin; Nouran, Y. Mohamed**, "Integrity Assessment Study for Low Salinity Enhanced Oil Recovery to ensure suitability for integration for exiting Morgan Water Flood Facilities with the application of LoSal technology into the GUPCO (Ras Shukeir) Project" *Egyptian Journal for Applied Sciences – Volume 32, Number 12, NOVEMBER 2017*
 10. Maha, M. Elshafei; **Nouran, Y. Mohamed**; Wahab, R.A; M, S .Ibrahim; T. A. Hegazi, "polymer – coated iron oxide magnetite nanoparticles preparation and characterization using chemical co-precipitation methods" *Egyptian Journal for Applied Sciences – Volume 29, Number 12, Decamber 2014*.
 11. A.M.Baraka, Marwa, M. El-Tayieb, Maha El Shafai, **Nouran Yussri Mohamed**, "Sportive Removal of Phosphate From Wastewater Using Activated Red Mud" *Australian Journal of Basic and Applied Sciences*, 6(10): 500-510, October 2012.
 12. M.M. Elshafie; A.H. Mostaf ; **N.Y. Mohamed**, "Adsorptive Removal Of Phosphate Using Dolomit As Natural Adsorbent " "Civil Engineering Research Magazine CERM, Civil Engineering Department, Faculty of Engineering, Al-Azhar University, Cairo-Volume34, Number 2, April 2012"
 13. **A.H. Mostaf ; M.M. Elshafie;, N.Y. Mohamed**, "Applying filter Models with Different Dolomite size Media for phosphate and Main pollutants Removals from Wastewater " *Civil Engineering Research Magazine CERM, Civil Engineering Department Faculty of Engineering, Al-Azhar University, Cairo*. Acceptance letter 5/12/2011.

Membership

- Membership of Egyptian scientific syndicate.
- Participate in preparation of "**The Egyptian code of reuse of the treated waste water in agriculture**" at Housing & Building National Research Center, Egypt ,2009
- Treatment Committee, Thermal water committee, Reverse Osmosis Committee for developing Egyptian Code For (2012).
- Member of the Egyptian Code of Practice Committee "**solid waste managment**". 2012
- Participate as Technical Honest in Egyptian Code design criteria and terms of execution of desalination plants from January 2012 till now

Skills

-Languages: Fluent Arabic and English

-Computer : Awarded the International Computer Driving License (ICDL) Certificate include Concepts of Information Technology (IT), Using the Computer and Managing Files, Word Processing, Spreadsheets, Database, Presentation and Information and Communication (11/2010). **Skill Card Number : EGY000287429**

Ability to identify, design, conducts and develops independent research including desk studies, field work, and laboratory research.

-Ability to learn new technologies and science rules for enhancing research process.

-Good communication and interpersonal skills (speaking effectively , expressing ideas, persuading)

-Ability to work effectively and actively individually or in a team work.

-Good planning, organization, monitoring skills and writing reports.

-Strong coordination skills, problem solving & decision making.

-Dependable and goal oriented.

Training , Conference & Workshop

1. Scientific Image manipulation and analysis, national research center ,Cairo – Egypt – September 30, 2019.
2. Environmental Friendly Infrastructure Training Course, Cairo – Egypt – October 18-22, 2010^{1st} international conference on sustainable construction and project management March 29-31,2016 Cairo, Egypt.
3. A certificate from Calibration Consultant Group for completion successfully training course on "ISO/IEC 17025 requirements and Internal Audit' (2016)
4. Middle East Green Building Summit21-22 April, 2015 Sofitel El Gezira Hotel – Egypt
5. EU-Egypt Cooperation in Water Sector in Egypt Overview on Water/Wastewater sector EU-Egypt ongoing and future cooperation(workshop) 28-29 April 2014, Conrad Hote cairo
6. 2nd International Conference & Exhibition on Sustainable Water Supply and Sanitation December 3-5th, 2012, Cairo, Egypt
7. The first egyption solid waste management forum 26th to 27th November 2013 sofitel Cairo el gezira, Cairo.
8. Fifth International Conference On Nano- Technology Construction (NTC 2013(
9. 12th international conference on non-conventional materials and technology (IC-NOCMAT 2010 " materials & technologies for sustainable infrastructure system" 21-23 Sep. Cairo, Egypt.
10. Fifth International Conference On Nano- Technology In Construction (NTC 2013
11. Fundamental principals and concepts for the International Standard ISO 9001:2008

- and its Implementation from National Quality Institute (NQI) – Egypt 2010.
12. International experience exchange workshop Green calc as a tool for a friendly environment ,24-25 Oct.2010 ,Cairo, Egypt
 13. Drinking water quality standards between theory and application ,11 Feb.2009, Cairo , Egypt. (metropolis international institute in HBRC.
 14. Advanced Wastewater Management of the Egypt Urban Development program from UNESCO-IHE (Institute for Water Education). Housing and Building National Research Center (HBRC)- Dokki – Egypt, October, 2009.
 15. Egypt urban development Nov.2009 ,Cairo, Egypt" water quality control and assessment of water source & distribution system."
 16. Internet based test (TOEFL) & IELTS.
 17. New cements and their effect on concrete programacne 16-18 Dec.2008 ,Cairo , Egypt.
 18. certificate from Calibration Consultant Group for completion successfully training course on "ISO/IEC 17025 requirements and Internal Audit' (2008(
 19. Training courses and consulting services for area of water quality environmental field including studies, design, analysis, evaluation, and monitoring. Egypt, 2008.

List of projects

- 1- Technical supervisor of Chemistry Lab at Water and Wastewater at Sanitary and Environmental Institute, Housing and Building National Research Center that attained IAS 17025 – 2011
- 2- Preparation of water and wastewater Master plan for Kafr El-Sheikh Governorate via Utilities engineering office within the framework of national master plans overall Egypt for all governorate in the field of water and wastewater funded and followed by HCWW.
- 3- Evaluation of wastewater collection system and master plan upgrading for the city of Tripoli, Libyan Arab Republic, Ministry of Municipalities
- 4- Team member responsible for preparation of tender documents for all water and wastewater systems.
- 5- Participate in the national research project for **using rice husk in the production of building units and environmental protection** - Report no.4, 5, August 2008. "Using rice husk in the adsorption of iron and manganese from groundwater".
- 6- Participate in the national research project for Use layers girl extracted from quarries natural alternative to bentonite. First stage "**Substance use bentonite to remove racial iron and copper water**".
- 7- Participate in the national research project for recycling wastes of building works and materials that pollute the environment in Egypt and the possible methods to utilize it. "**Using of CKD in improving the properties of collapsible soils**".
- 8- Participate in the national research project for **Developing Wastewater and Industrial Wastewater Treatment Processes for Leather Tanning in the Project of Settling and Developing Ancient Egypt Tannery in Rubiky Area** - Second Report, May 2009.
- 9- Participate in the study of the effect of sulphonia plant as a remedy for liquid wastes and water streams.
- 10- Participate in the national research project for **Developing Wastewater and Industrial Wastewater Treatment Processes for Leather Tanning in the Project of Settling and Developing Ancient Egypt Tannery in Rubiky Area** – Third Report, March 2010.
- 11- Participate in the national research project **on the source of land water in the area (f) Ahram gardens of the Cooperative Association for Construction, Housing and the reconstruction of the desert Ahram** - June 2010.
- 12- Participate in the national research project for **Applications of Green Architecture and Sustainable Development Systems in Drinking Water and Sanitation Using Low Cost Technology** Second and Third Report, July 2011.
- 13- Participate in the national research project for **Applications of Green Architecture and Sustainable Development Systems in Drinking Water and Sanitation Using Low Cost Technology** Second and Fourth Report, December 2011.
- 14- Participate as Team work in the national research project **Using Unconventional Techniques to Remove Phosphorus from Wastewater in the Light of Green**

Architecture and Sustainable Development - First Report January 2012

- 15- Participate as Team work in the national research project **Using Unconventional Techniques to Remove Phosphorus from Wastewater in the Light of Green Architecture and Sustainable Development** – second and third Report July 2012
- 16- **Cooperation protocol between the Egyptian water and wastewater Regulation Agency and the Housing and Building National Research** to take and analyze samples of drinking water and the networks of the areas that feed it to determine the extent of compliance with the Egyptian drinking water standards issued by Decree No. (458) of 2007 for the regulation and control of drinking water Sewerage at the level of the Republic from 2013 until now.

REFERENCES

Prof. Dr./ Maha Moustafa El-Shafai

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Housing and Building National Research Center, Egypt.

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Egypt.

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