

Holds a B. Sc. in Special Chemistry, a postgraduate diploma and Master degree in Inorganic Chemistry. Has over 16 years' experience working as Chemist at Power Stations.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/10/1983
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

- : B. Sc. in Special Chemistry, Menoufia University, 2004
- : Post graduate Diploma, 2009
- : Premaster Courses in Inorganic Chemistry, Menoufia University
- : 1-year training and studying at Biomedical Chemistry Department – National University of Ireland, Galway (NUIG) for Master degree
- : Master degree in Inorganic Chemistry, Menoufia University, 2019

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : Origin, Sigma plot, Chemdraw, Isisdraw, Chemoffice, etc.

TRAINING COURSES AND CERTIFICATIONS

- : Training for one week in Middle Delta Electricity Production Company, Nubaria Power Station Combined Cycle about water treatment in power plants.
- : Training for one week in Nubaria Power Station Combined Cycle - Egypt about R.O, raw water treatment, Demineralization, chemical cleaning in power plants.
- : Training course for one week about chemical cleaning and boilers feed water treatment in Central Laboratories of Electricity.
- : Firefighting training for one week in 2010 and one week in 2017.
- : English Course for Non-Specialists (36 hrs.) (Oct. 2011).

- : Research project titled "Radiation Processing of Some Natural Polymers and its Applications in Water Treatment" under supervision Menoufia University and (National Centre for Radiation, Research and Technology, Egypt) for six months.

Workshops:

- Attaining Elsevier Health Live Webinar: Cancer patient Journey presented via the Saudi Digital Library platform, Prince Sattam Bin Abdulaziz University, Saudi Arabia, 25-2-2021.
- Attaining workshop entitled (The complete guide to how to write a research paper suitable for refereed publication) Prince Sattam Bin Abdulaziz University, Saudi Arabia, 9-3-2021.
- Attaining workshop entitled (Research information in the digital environment the digital library as a model), Prince Sattam Bin Abdulaziz University, Saudi Arabia, 14-3-2021.
- Attaining workshop entitled (Direction and guidance at the university: reality and aspirations), Prince Sattam Bin Abdulaziz University, Saudi Arabia, 17-3-2021.
- Attaining workshop entitled "selecting journals for publication: tips and examples" Prince Sattam Bin Abdulaziz University, Saudi Arabia, 22-3-2021.
- Attaining workshop entitled (PREPARING SCIENTIFIC PAPERS FOR PUBLICATION IN DISTINGUISHED JOURNALS), Prince Sattam Bin Abdulaziz University, Saudi Arabia, 29-3-2021.
- Attaining workshop entitled (Applications of smart education), Prince Sattam Bin Abdulaziz University, Saudi Arabia, 17-3-2021.
- Attaining workshop entitled (Academic writing skills), Prince Sattam Bin Abdulaziz University, Saudi Arabia, 10-3-2021.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2022 till now
- Employer** : Bright Crown for contracting
- Project** : Military Industries Corporation (MIC), Al-Kharj – KSA
- Job title** : Chemist
- Job Description** : Carry out all chemical activities related to:
- Softener system (Veolia Water Technologies).
 - Deionizer system (Veolia Water Technologies).
 - Reverse osmosis plant (Veolia Water Technologies).
 - Electrode hot water boiler plant (Allmech).
 - Element water heating plant (Allmech & A. O. Smith).
 - Effluent waste system.
 - Chemical analysis of water samples for all previous systems.
- Dates** : From Oct. 2020 till Jul. 2022
- Employer** : Prince Sattam Bin Abdulaziz University – KSA
(Preparatory Year Deanship – Basic Sciences Department – Chemistry)
- Job title** : Lecturer of Chemistry & Communication Skills
- Job Description** :
 - Teaching of organic chemistry and Communication skills for undergraduate students.
 - Give workshops for staff members and university students.

- Academic coordinator for organic chemistry course.
- Academic Development and Quality Coordinator.

Dates : From Aug. 2020 till Jan. 2021 (academic year 2020/2021)
Employer : Prince Sattam Bin Abdulaziz University – KSA
 (College of Science & Humanities – Chemistry Department)
Job title : Lecturer of Chemistry
Job Description :

- Teaching of practical general chemistry course for undergraduate students.
- Give workshops and laboratory safety training for university students.
- Participate in development and quality tasks.

Dates : From Apr. 2017 till Nov. 2019
Employer : [EGYPTROL](http://www.egyptrol.com) / AC BOILERS
Job title : Commissioning & Start-up Chemist
Job Description :

- South Helwan Supercritical Power Plant 3x650MW (MITSUBISHI ST/TC4F-40.5"):

Carry out all pre-commissioning activities for:

 - Chemical cleaning of main boilers (Commissioning Responsible with VECOM Company).
 - Chemical cleaning of Auxiliary boilers.
 - Chemical treatment for waste water of chemical cleaning process.
 - Boiler clean up, Refractories dry out, Steam blowing, Bypass operation, Normal operation.
 - Commissioning & Start-up of SWAS system.
 - Preparation of reagents and standard solutions of SWAS System.
 - Calibration & Maintenance of Rosemount / Emerson online Analyzers:
 - ❖ ROSEMOUNT 1056 (PH, CONDUCTIVITY, ORP and D.O Analyzers).
 - ❖ 3S-COLORIMETERIC (SILICA, IRON Analyzers).
 - ❖ Waltron 9031 CX Sodium Analyzers.
 - Commissioning & Start-up of CEMS system.
 - Following the water quality (Boilers Specification) from commissioning phase to start-up until normal operation.
 - Boilers preservation.
 - Commissioning & Start-up of Auxiliary boiler.
 - WTP (RWRO / VEOLIA Systems) with components: (MMF, CF, UF, RO, MB).
 - Commissioning of closed cooling water system (CCW System).
 - Chemical washing of RAH Systems.
 - Chemical analysis of water samples by different methods.
- New West Damietta Power Plant (4x125MW + 1x250MW Combined Cycle) (GT/GE9E & ALSTOM – ST):
 - Commissioning & Start-up of SWAS system.
 - Preparation of reagents and standard solutions of SWAS System.
 - Calibration & Maintenance of Rosemount / Emerson online Analyzers:
 - ❖ ROSEMOUNT 1056 (PH, CONDUCTIVITY, ORP and D.O Analyzers).
 - ❖ 3S-COLORIMETERIC (SILICA. IRON Analyzers).

- ❖ Waltron 9031 CX Sodium Analyzers.
- Analyze water samples, test and collect data using laboratory equipment to determine the physical properties and chemical components.
- Commissioning & Startup of CEMS system.
- The main responsible chemist of AC Boilers Company for SWAS & CEMS Handover.

Dates : From Oct. 2006 till Apr. 2017

Employer : Middle Delta Electricity Production Co.

Project : Nubaria Power Station Combined Cycle (3x750MW = 2250MW), Siemens gas turbine, GE gas turbine, Mitsubishi steam turbine

Job title : Chemist

Job Description :

- Commissioning & Start-up of RWTP (METITO Systems).
- Commissioning & Start-up of WWRO (METITO Systems).
- Controlling and Operating of WTP through SCADA (supervisory control and data acquisition):
 - Raw water pre-treatment System.
 - Waste water treatment System.
 - Sewage treatment System.
 - Potable water system.
 - Demineralization system by using Ion Exchange process.
- CIP of RO membranes.
- Commissioning & Start-up of CCW System.
- Chemical treatment of CCW System.
- Chemical cleaning of HRSG.
- Boilers feed water treatment (Water and Steam cycles).
- Following the water quality of boilers (ALSTOM, STF) according to Boiler Specifications.
- Boilers preservation.
- Make analysis for all samples of pre-treatment system, steam cycle, drinkable water and Demi.
- Water using laboratory equipment:
 - HACH DR (900, 1900, 3900) spectrophotometer.
 - JENWAY 6400 portable spectrophotometer.
 - PH, Turbidity, Conductivity and TDS portable Analyzers.
 - TITRATION methods of water samples analysis.

Dates : In 2005 (for 6 months)

Employer : Sanosil Egypt Co.

Job title : Chemist

Further experiences : One year as Chemistry Teacher and Arabic Teacher for non-native speakers in El Hikma Islamic School (Galway – Ireland).

Field of experience :

- 16 years of experience as Chemist and Commissioning Chemist at HRSG & supercritical power plants, Shift Team Leader in project operation & University Lecturer.
- Expert in the chemical cleaning and clean-up of boilers (Combined & Supercritical), boiler feed water treatment and follow the water quality

(Specification) from commissioning phase to start-up until normal operation.

- Expert in the chemical cleaning of HRSG.
- Expert in commissioning & start-up of (SWAS) & (CEMS) systems.
- Expert in the chemical analysis of water samples for raw water treatment, waste water treatment, reverse osmosis, water & steam cycle and ion exchange systems.
- Provide technical training to Co-workers and new staff.
- Teaching of organic chemistry, practical general chemistry and Communication skills for undergraduate students.
- Participate in development and quality tasks.
- Laboratory:
 - Order chemicals and using established methods, prepare standards, reagents and samples and operate specialized analytical equipment.
 - Performed experiments and studies according to protocol.
 - Analyze samples, test and collect data using laboratory equipment to determine the physical properties and chemical components.
 - Perform all work in a safe manner in accordance with safety practices and procedures.
 - Testing water samples to determine its quality using different analytical tools.
 - Demonstrated technical expertise in analytical techniques (Spectrophotometer, HPLC, pH meter, conductivity meter and turbidity meter).
 - Ensure analytical equipment is calibrated accordingly and is fit for use.
 - Ensure all analytical testing procedures and testing results are recorded accordingly to reflect Company and local standards and requirements are met.
- Safety:
 - Perform all work in a safe manner in accordance with safety practices and procedures.
 - Chemicals – Safe Handling.
 - Chemicals – Safe storage and ventilation of storeroom.
 - Ensure the chemicals bottles and containers have the correct product and correctly labeled.
 - Using the right chemicals for the right job.
 - Reading the MSDS before using any chemicals.
 - The correct use of chemicals.
 - Using and cleaning the personal protective equipment (PPE).
 - Wear appropriate protective clothing.
 - Safe operation of chemicals injection systems.
- Administrative Responsibilities:
 - Leading, coordination, and supervision of operation teams during project from commissioning phase to start-up until normal operation.
 - Team development and provide technical training to team members.

Publication:

Publishing paper in international journal from master thesis entitled: D. A.

Tolan, Y. K. Abdel-Monem, M. A. El-Nagar, Antitumor Platinum (IV) complexes Bearing the Anti-Inflammatory Drug Naproxen in Axial Position, *Appl. Organometallic Chem.* 2019; e4763.