

## *Curriculum Vitae of Mahdi M. Almahdi Almaky, BSc, MSC, PhD*

**Nationality:** Libyan;  
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### **Highlights of job accomplishments**

- **Lecturer of Applied Chemistry:** Six years experience in teaching and laboratory administration in the areas of General chemistry, polymer chemistry and petrochemical industries covering undergraduate and postgraduate chemistry and chemical engineering.
- **Nanoscience and Nanotechnology:** I acquired expertise in the synthetic methods and characterisation techniques in the area of nanotechnology involving conductive polymers nanowires.
- **Oil and Gas Industry:** I gained expertise with extensive knowledge in the quality control of physical and chemical properties of crude oil and refinery products and as a quality assurance chemist.
- **Polymer Science and Technology (Petrochemicals):** extensive knowledge in the processes involving polymer science and technology applications especially in polyethylene. Chemical and mechanical properties of polymers, extrusion, blow moulding, injection moulding and blown film.
- **Laboratories Safety:** Knowledge of standard lab safety protocols such as COSHH, risk assessment etc.
- **Languages:** Very good ability to read and write Arabic and English Languages.

### **Professional Work Experience**

- **Sep. 2013- up to now: Lecturer, Chemistry and Chemical Engineering Departments, Sebha University, Sebha, Libya.**
  - o Teaching in the areas of general chemistry, polymer chemistry, oil industries for undergraduate and postgraduate students.
  - o Research involving polymers chemistry, Nanotechnology and oil and gas technology.
  - o Activities management of the applied chemistry division in the department of chemistry.
  - o Students' supervision in the area of general and synthetic chemistry.
- **September 2008-Jul. 2013: PhD Researcher, Chemical Nanoscience Research Group, Chemical Nanoscience Laboratories, School of Chemistry, Newcastle University, UK.**
  - o Synthesis of conductive polymers nanowires.
  - o Characterisations of conductive polymers nanowires.
  - o Spectroscopic and microscopic instrumentations including Atomic Force Microscopy (AFM), SEM etc.
- **Oct. 2005- September 2008: Assistant Lecturer, Chemistry Department, Sebha University, Sebha, Libya.**

- o Teaching in the area of petroleum refining and polymer chemistry covering general undergraduate chemistry.
- o Research involving applied chemistry and other applications in the oil and gas sector.
- o Students' supervision at the undergraduate level in the area of general and synthetic chemistry.

□ **October 2004 - Oct. 2005: Unit Supervisor of Polyethylene Quality Control, Polyethylene Unit, Raslanuf Petrochemical Complex, Libya.**

- o Management of polyethylene quality control laboratories.
- o Quality Control and Quality Assurance of polyethylene raw materials and final products.

□ **September 2003-Oct. 2004: Research Fellow, Research & Development Laboratories, Polyethylene Unit, Raslanuf Petrochemical Complex, Libya.**

- o Research and development involving polyethylene industry, applications and polyethylene after sale services.
- o Research and development involving applications in the petrochemical industries.

□ **Sept. 1998-Sept. 2002: Polyethylene Quality Control Unit, Raslanuf Petroleum Complex, Libya.**

- o Quality Control and Assurance in the production of polyethylene.
- o Routine laboratory testing of quality and parameters during the production of polyethylene.
- o Determination of chemical, rheological and mechanical properties of polyethylene production.

□ **Feb. 1990-Sept. 1998: Quality Control of Crude oil and refinery products, Raslanuf Oil & Gas Processing Company, Libya.**

- o Laboratory testing of oil and gas parameters and quality assurance.
- o Experimental research in measurements of chemical and physical properties of oil and gas.

### **Academic Background**

- **PhD: Chemistry**, Newcastle University, Newcastle Upon Tyne, UK (awarded 2013).  
**Thesis Title:** Synthesis and characterisation of conductive polymers nanowires.
- **MSc: Polymer Science and Technology**, The University of Manchester, UK (awarded 2003).  
**Thesis title:** Polymer synthesis using olefin metathesis.
- **BSc: Chemistry**, Sebha University, Sebha, Libya (**awarded 1989**).  
**Thesis title:** Chemistry of Cholesterol.

### **Relevant Training Courses**

- Professional training courses related to quality control and process of Oil and Petrochemical industries (Polyethylene) in several countries; Libya, Russia, Germany and United Kingdom.
- First Aid Certificate, Northumbria Ambulance Services NHS Trust, Newcastle upon Tyne, UK. (August 2010).
- Basic Health and Safety, Newcastle University. (Feb. 2009).
- Safety Management and occupational health, The British Safety Council, Tripoli-Libya. (1999).
- Chemical Safety, Raslanuf Oil and Gas Processing Company, Raslanuf, Libya. (1997).

- Basic Health and Safety, Raslanuf Oil and Gas Processing Company, Raslanuf, Libya. (1996).
- Basics of Fire Fighting and General Safety, Raslanuf Oil and Gas Company, Raslanuf, Libya. (1992).

**Computing & IT Skills**

- Excellent user of MS-Word, PowerPoint, and Excel packages etc.

**Scholarships & Awards**

- National Oil Corporation (NOC) of Libya Scholarship for MSc programme.
- The Government of Libya Scholarship (for PhD) programme.