***mahdi***

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**Highlights of job accomplishments**

 **Lecturer of Applied Chemistry:** Six years experience in teaching and laboratory administration in the area of polymer chemistry and petroleum refining covering general undergraduate 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 area of polymer chemistry, oil industries and general undergraduate chemistry.

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 at the undergraduate level 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 servives.

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.