



# Barham Sabir Mahmood

BSc; MSc Petroleum Engineering



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## PROFILE

Barham Mahmood obtained his B.Sc. (Hons) degree in petroleum Engineering from Koya University in 2011; M.Sc. in the same major from Herriot Watt University (UK) in 2014. His research interests focus on the reservoir characterization, EOR and Reservoir Simulation.

Mr. Mahmood is a committed lecturer with over 5 years of experience at KRG academic institutions teaching students from various social and cultural backgrounds. Possessing excellent administrative, verbal communication and written skills along with constructive and effective teaching methods that promote a stimulating learning environment.

## CAREER OBJECTIVE

To obtain a position as instructor in the field of petroleum engineering to serve my students with the most comprehensive and up to date teaching methods to enhance both their learning and my contribution to the public or private educational institution.

## SKILLS

### Professional Skills

- MS office
- Eclipse 100& 300
- Pansystem
- Prosper
- Data building and analysis
- Research ability

### Personal Skills

- Ability to work under pressure
- Time management
- Team working
- Mentoring
- Conflict resolution

## CAREER

### 2015 - Present LECTURER Koya University

Responsible for carrying out teaching and research duties. Delivering lectures to groups of students and using advanced teaching techniques to inspire and motivate them for higher level qualifications and then future employment.

- Involved in the research & design of new courses.
- Assessing student's course work and material.
- Faculty TQA Committee.
- Head Laboratories of Petroleum Engineering Dept.
- Providing mentoring and support to students.
- SPE Faculty Advisor

### 2016 - Present LECTURER (Visitor) Soran University

instruct students at undergraduate level in a range of courses within Petroleum Engineering discipline (Production Engineering, Reservoir Simulation and Reservoir Fluid Properties).

### 2017 - 2019 LECTURER (Part Time) Komar University (KUST)

Teach Fundamental of Reservoir Engineering, Reservoir Simulation, Reservoir Management and Monitoring and Drilling Engineering. Supervise student's graduation projects.

### 2019 - 2020 LECTURER (Visitor) Sulaimani Polytechnic University

Taught Natural Gas Engineering course to classes of 58 undergraduate students.

### 2016 - 2017 LECTURER (Part Time) Kurdistan Technical institute

Teach Introduction to Petroleum Industry, Drilling and production equipment

## EDUCATION

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### **M.Sc. Petroleum Engineering I Reservoir Simulation**

Herriot Watt University, Edinburgh, UK

The course focuses on the strategic, commercial and technical aspects of the oil and gas industry. The master's program is designed to develop basic knowledge in the field of petroleum engineering, exploration and development of oil and gas fields, as well as analyse the project and its economic viability, taking into account its sustainable development and growth.

Master thesis: Optimization of CO2 storage in deep saline aquifer using the Raven software

Date: 14 Sep 2013 – 14 Sep 2014

### **B.Sc. Petroleum Engineering I** top ranked student

Koya University, Kurdistan Region, Iraq

Formation Evaluation, Production Engineering I & II, Drilling Engineering I & II, Reservoir Engineering I & II, Engineering Economy, Engineering geophysics, Gas Technology, Secondary Recovery, Reservoir Simulation

Graduation project: Effect of non-hydrocarbon on z-factor by MATLAB programming language.

Date: Nov 2007 – July 2011

## TRAINING & ADDITIONAL SKILLS

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- 20, 21, 29, 31 May 2020** Attended and complete four different SPE continuing Education Courses:
- Optimism in reservoir production forecasting – impact of geology, heterogeneity, geostatistics, reservoir modeling, and uncertainty
  - Creating geologically realistic models used for reservoir management
  - Engineered well design: from spud to abandonment
  - An integrated simulation approach to field development planning
- 29 Sep – 6 Oct 2015** Attended a course about PVT equipment and analysis which was arranged by Middle East Technical University and U-test Company at Ankara, Turkey
- 01 March – 13 May 2015** Attended a teaching method course which was arranged by Koya University at Koya, Kurdistan, Iraq (2<sup>nd</sup> among 35 teachers)
- 03 July 2013** Participated poster presentation about 'Petroleum exploration and production' at Herriot-watt University, Edinburgh, UK
- 27- 29 Nov 2012** Attended a course about Wireline Services Overview which was arranged by Weatherford Company at Erbil, Kurdistan, Iraq
- 27- 29 Nov 2012** Audience and representative of the Petroleum Engineering department at 1st International Conference on Petroleum and Mineral Resources, Koya University, Kurdistan, Iraq
- 03 – 05 Dec 2012** Audience and representative of the Petroleum Engineering department at 1st International Conference on Petroleum and Mineral Resources, Koya University, Kurdistan, Iraq
- 23 – 27 Oct 2010** Attended a course about Corrosion in Petroleum Industry which was arranged by Total Professors Association (TOTAL) Company, Istanbul, Turkey
- 01 Aug – 01 Sept 2010** Attended the summer training about 'Production Operation Training' which was arranged by TTopco Company at Taq Taq field, Kurdistan, Iraq

## **PUBLICATION**

1. R. Wang, M. Sheikholeslami, **B. Mahmood**, A. Shafee and T. Nguyen (2019) Thoi Simulation of triplex-tube heat storage including nanoparticles, solidification process, Journal of Molecular Liquids, 296. <https://doi.org/10.1016/j.molliq.2019.111787>
2. **Mahmood, B. S.**, Ali, J., Nazhat, S. B., & Devlin, D. (2017). A Sensitivity Study on Low Salinity Waterflooding. Modern Environmental Science and Engineering, 04(03), 231-236. doi:10.15341/mese(2333-2581)/04.03.2017/003
3. Nezhat, B. S., **Mahmood, B. S.**, & Ali J. (2017), The Environmental Aspects of Underground Storage of Hydrocarbon Products in Lower Fars Salt Beds, EIOGI conference, 14-17 April.

## **EXTRA ACTIVITIES**

**2017- Present**

### **SPE Faculty Advisor | Koya University SPE student chapter**

- Serves as the official, recognized liaison between the chapter and the university, and the chapter and SPE (local section)
- Advises the chapter on the Mission & Vision of SPE and guides the information and implementation of the chapter's goals, objectives, and programs within those boundaries.

**02 May 2018**

### **OGSGP 2018 Conference | Member of Organizing Committee**

A National Conference on Oil and Gas for Student Graduation Project: Kurdistan Region of Iraq, May 02, 2018: OGSGP 2018 Conference.

**10 Feb 2017 - present**

### **KurdOil Magazine | Editor**

A seasonal magazine covers all relevant segments of oil and gas industry including politician, economic, scientific, environment, exploration, development and new technology, with more focus on the Kurdistan Region and Iraq.  
Kurdish and English Language  
2 issues have been published

## **REFERENCES**

Dr. Gillian E Pickup (Lecturer at Heriot Watt University, institute of petroleum engineering, Edinburgh, UK)  
Assistant Professor  
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Dr. Hiwa Sidiq (Lecturer at Petroleum engineering, Komar University of science and technology/Sulaimani, Iraq)  
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