



WHAT IS PETROLEUM GEOSCIENCE?

Petroleum geoscience is also known as ‘petroleum detective’, a field of science that specialises in exploring the entire petroleum system – from its origin, generation, migration and accumulation, to the preservation, exploration and exploitation of oil and gas.

WHAT DOES A PETROLEUM GEOSCIENTIST DO?

Petroleum geoscientists are the front liners of natural resource exploration. They are in charge of the discovery and production of petroleum, to support and develop the nation’s economic growth and fulfil the world’s oil demand.

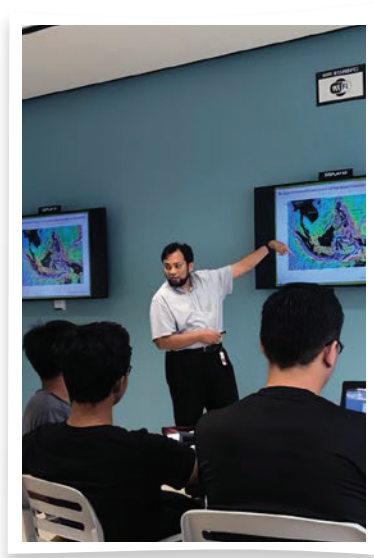
Also known as geologists, geophysicists and geochemists, they work in a wide range of disciplines, integrating the core fields of geology, physics, chemistry and mathematics.

Well trained in handling, processing and integrating massive datasets, they are no strangers to the rapid development of science and technology - which involves high performance computing, artificial intelligence, big data and other analytics methods.



WHY STUDY PETROLEUM GEOSCIENCE AT UTP?

- 1 Comprehensively designed programme with strong inputs from industry experts
- 2 Students can choose specialisations that are in demand by the industry during their final year of study
- 3 World-class teaching and learning, research capabilities as well as state-of-the-art labs and facilities
- 4 Strong partnership with multinational oil and gas companies such as PETRONAS, Schlumberger, Baker Hughes, Shell and Halliburton
- 5 UTP graduates are highly sought after by oil and gas industry employers, with 90% being employed within 6 months after graduation
- 6 The academic staff are highly qualified and experienced. Thus, undergraduate students can benefit greatly from their knowledge and expertise
- 7 The only Petroleum Geoscience programme at undergraduate degree level in Southeast Asia region
- 8 Supported with industry-leading software and real data from the industry, worth over a million US dollars
- 9 The programme offered is relevant to future needs, and addresses the Critical Occupation List in Malaysia by the Ministry of Human Resources and Talent Corp



WHAT AM I GOING TO LEARN?



National / University

- Management, Social Sciences and Humanities
- Introduction to Oil and Gas
- Scientific Inquiry
- Co-Curriculum



Specialisation

- Basin and Reservoir Studies
- Exploration Geophysics
- Geographical Information System and Geo-hazards



Common Core

- Mathematics for Scientists
- Health, Safety and Environment
- Data Analytics



Project Based

- Science Team Project
- 7 months Structured Industrial Internship Programme
- Community Engagement Project
- Final Year Research Project
- Capstone Project



Core Discipline by Programme

- Geology
- Geophysics
- Geochemistry



Minor (Optional)

- Entrepreneurship
- International Relations
- Project Management
- Big Data Analytics

Contact

Dr Khairul Arifin Mohd Noh
Chair, Geosciences Department

Email

khairula.nmoh@utp.edu.my

For further details, visit www.utp.edu.my



UTPOfficial