

LIST OF CRITICAL AREAS JOB VACANCIES - UNIVERSITY LECTURE 26th March 2024 - 25th April 2024

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	12.2. Department of Creative AI (CAI)	
	12.3. Department of Intelligence Informatics (II)	
	12.4. Department of Smart Engineering and Advanced Technology	gy
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1. AZMAN HASHIM INTERNATIONAL BUSINESS SCHOOL

- UTM KUALA LUMPUR

1.1 Azman Hashim International Business School

1.1.1 Aviation Management
1.1.2 Digital Innovation
1.1.3 Healthcare Management
1.1.4 Information Technology
1.1.5 Technology Management

2. FACULTY OF BUILT ENVIRONMENT AND SURVEYING

- UTM JOHOR BAHRU

2.1 Department of Architecture

- 2.1.1 Architecture
- 2.1.2 Building Technology
- 2.1.3 Urban Design

2.2 Department of Landscape Architecture

2.2.1 Landscape Ecology

2.3 Department of Quantity Surveying

- 2.3.1 Economics, Finance & Management
- 2.3.2 Legal Contractual Studies
- 2.3.3 Professional, Practices
- **2.3.4** Project Management Practices

2.4 Department of Real Estate

- **2.4.1** Land Law
- 2.4.2 Land Information System
- 2.4.3 Real Estate Investment
- 2.4.4 Valuation (Registered Valuer)

2.5 Department of Urban & Regional Planning

- **2.5.1** Housing
- 2.5.2 Planning Legislation
- 2.5.3 Urban Design
- 2.5.4 Urban Governance

3. FACULTY OF CHEMICAL AND ENERGY ENGINEERING

UTM JOHOR BAHRU

3.1 Department of Bioprocess Engineering and Polymer Engineering

3.1.1 Artificial Intelligence (AI) in Bioprocess Industry

3.2 Department of Chemical Engineering

- 3.2.1 Artificial Intelligence (AI) in Petrochemical Industry
- 3.2.2 Process Control
- 3.2.3 Process Safety
- 3.2.4 Process Simulation
- 3.2.5 Solid Waste Management

3.3 Department of Energy Engineering

- 3.3.1 Artificial Intelligence (AI) and Robotics Application in Gas Engineering
- 3.3.2 Artificial Intelligence (AI) Application in Nuclear Engineering
- 3.3.3 Nuclear Control and Instrumentation
- 3.3.4 Oil and Gas Data Analytics
- 3.3.5 Process Control and Instrumentation

3.4 Department of Petroleum Engineering

- 3.4.1 Drilling and Completion
- 3.4.2 Economics and Project Management in Petroleum Engineering
- 3.4.3 Health, Safety and Environment in Petroleum Engineering
- 3.4.4 Production and Operation

4. FACULTY OF CIVIL ENGINEERING

- UTM JOHOR BAHRU

4.1 Department of Geotechnics & Transportation

- 4.1.1 Advanced Laboratory Testing
- 4.1.2 Artificial Intelligence in Geotechnics & Transportation System
- 4.1.3 Constitutive Modelling
- 4.1.4 Environmental Geotechnics

4.2 Department of Structures and Materials

- 4.2.1 Artificial Intelligence
- 4.2.2 Building Information Modelling
- 4.2.3 Civil Engineering Material
- **4.2.4** Construction Law and Contract
- 4.2.5 Construction Management
- 4.2.6 Earthquake Engineering
- 4.2.7 Numerical Method
- 4.2.8 Project Management
- **4.2.9** Structural Analysis
- 4.2.10 Structural Design

4.3 Department of Water and Environmental Engineering

- 4.3.1 Coastal Engineering
- 4.3.2 Environmental Management
- 4.3.3 Hydraulics & Water Supply
- 4.3.4 Hydrology & Groundwater
- 4.3.5 Marine Environment
- 4.3.6 Solid Waste

5. FACULTY OF COMPUTING

- UTM JOHOR BAHRU

5.1 Department of Applied Computing & Artificial Intelligence

- 5.1.1 Data Analytics
- **5.1.2** Data Management
- **5.1.3** Intelligence Computing

5.2 Department of Computer Science

- **5.2.1** Computer System
- 5.2.2 Digital and Cyber Security
- 5.2.3 Next Generation Networking

5.3 Department of Emergent Computing

- 5.3.1 Extended Reality and Immersive Technology
- **5.3.2** Cognitive Technologies
- 5.3.3 Computer Graphics and User Experience

5.4Department of Software Engineering

- **5.4.1** Software Engineering Foundation
- **5.4.2** Software Process and Methodology
- **5.4.3** Software Technology

6. FACULTY OF ELECTRICAL ENGINEERING

- UTM JOHOR BAHRU

6.1 Department of Biomedical Engineering and Health Science

- 6.1.1 Artificial Intelligence in Biomedical
- 6.1.2 Biomechanics
- 6.1.3 Biosensor, Bio Transducer, Lab-on-Chip
- 6.1.4 Clinical Engineering
- 6.1.5 Neural Engineering

6.2 Department of Communication Engineering

- **6.2.1** Acoustic Signal Processing for Communication
- 6.2.2 Communication Networks & Systems
- 6.2.3 Network Security and Blockchain Technology
- 6.2.4 Parallel and Distributed Computing
- 6.2.5 Radar Communication
- 6.2.6 Satellite Communication
- **6.2.7** Signal Integrity in RF/Microwave Engineering

6.3 Department of Control Engineering and Mechatronic Engineering

- **6.3.1** Autonomous Systems
- 6.3.2 Intelligent Control
- 6.3.3 Mechatronic Engineering
- 6.3.4 Robotics
- **6.3.5** Smart Manufacturing/ Automation

6.4Department of Electronic Engineering and Computer Engineering

- 6.4.1 Computer System
- 6.4.2 Electronic System
- **6.4.3** High Speed Interconnect
- 6.4.4 IC and System-on-Chip Design
- 6.4.5 Memory Architecture
- **6.4.6** Signal/Image Processing

6.5 Department of Power Electrical Engineering

- **6.5.1** Energy Storage System
- **6.5.2** Power Electronics and Electrical Drive
- **6.5.3** Power System Engineering
- **6.5.4** Smart Grid

7. FACULTY OF MANAGEMENT

- UTM JOHOR BAHRU

7.1 Department of Accounting & Finance

- 7.1.1 Accounting (Taxation, Information System, Financial Accounting & Reporting, Audit)
- **7.1.2** Finance (Financial Markets & Behavioural Finance)

7.2 Department of Information Systems

- **7.2.1** Information Systems (Data/Business Analytics, Digital Business, Data Science, Business Statistics/Computational Mathematics)
- **7.2.2** Information Systems (IT/ Digital Entrepreneurship, Digital Business Law, Design Thinking & Innovation)

7.3 Department of Management & Technology

- **7.3.1** Economy
- **7.3.2** Innovation Technology (Technology Transfer, Technology Forecasting, Technology Commercialization, Managing Technology Based Transfer)
- **7.3.3** Law
- **7.3.4** Supply chain, Operation Management

7.4 Department of Marketing & Entrepreneurship

- 7.4.1 Entrepreneurship
- 7.4.2 Marketing

8. FACULTY OF MECHANICAL ENGINEERING

- UTM JOHOR BAHRU

8.1 Department of Aeronautics, Automotive & Ocean Engineering

- 8.1.1 Aerospace propulsion
- 8.1.2 Electric vehicle
- 8.1.3 Offshore engineering
- 8.1.4 Satellite system

8.2 Department of Applied Mechanics and Design

- **8.2.1** Artificial intelligence and robotics system
- 8.2.2 Continuum, Fracture and Damage Mechanics
- 8.2.3 Industrial automation and mechatronics control
- 8.2.4 Risk and Reliability

8.3 Department of Materials, Manufacturing & Industrial Engineering

- 8.3.1 Industrial Data Analytics
- 8.3.2 Deep Learning & Machine Learning
- 8.3.3 Smart Manufacturing, Programming & Manufacturing Automation

8.4Department of Thermofluid

- 8.4.1 Energy Management
- 8.4.2 Turbo Machinery

9. FACULTY OF SCIENCE

- UTM JOHOR BAHRU

9.1 Department of Bioscience

9.1.1 Bioinformatic/Computation Biology

9.2 Department of Chemistry

- 9.2.1 Bioinorganic Chemistry
- 9.2.2 Chemical Metrology
- 9.2.3 Electroanalytical and Radioanalytical
- 9.2.4 Forensic Science
- 9.2.5 Quantum Chemistry

9.3 Department of Mathematical Science

- **9.3.1** Applied Mathematics: Waves Dynamics / Solid Mechanics / Biomathematics
- 9.3.2 Numerical & Computational: Adaptive / Hybrid Scientific Computational Methods
- 9.3.3 Operational Research: Optimization / Optimal Control / Infrastructure Security
- 9.3.4 Pure Mathematics: Differential Geometry / Geometry and Quantum Field Theory
- 9.3.5 Statistics: Computational Statistics / Probability Theory / Stochastic Processes

9.4Department of Physics

- **9.4.1** Computational Physics
- **9.4.2** Theoretical Nuclear/Particle Physics

10. FACULTY OF SOCIAL SCIENCES AND HUMANITIES

- UTM JOHOR BAHRU / UTM KUALA LUMPUR

10.1 Academy of Islamic Civilization

- 10.1.1 Islamic civilization
- **10.1.2** Sharia
- 10.1.3 Usuluddin

10.2 Language Academy

- **10.2.1** Applied Linguistics
- 10.2.2 English Language Study
- 10.2.3 English for Specific Purposes (ESP)
- 10.2.4 Linguistics
- 10.2.5 Pragmatics
- 10.2.6 Sociolinguistics
- **10.2.7** Teaching English as a Second Language (TESL)
- **10.2.8** Translation study

10.3 School of Education

- 10.3.1 Chemical Education
- 10.3.2 Curriculum and Teaching
- 10.3.3 Education Administration and Management
- 10.3.4 Education and Development
- 10.3.5 Guidance and counselling
- 10.3.6 Measurement and Evaluation in Education
- 10.3.7 Teaching English as a Second Language (TESL)

10.4 School of Human Resource Development & Psychology

- 10.4.1 General Psychology
- 10.4.2 Human Resource Development
- 10.4.3 Human Resource Management
- 10.4.4 Industrial and organizational psychology

11. MALAYSIA JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY

- UTM KUALA LUMPUR

11.1 Department of Chemical and Environmental Engineering (ChEE)

11.1.1 Modeling, Process Optimization and Simulation

11.2Department of Electronic Systems Engineering (ESE)

- 11.2.1 Cyber Security
- 11.2.2 IC testing and verification
- 11.2.3 Software Engineering
- 11.2.4 Very large scale Integration

11.3 Department of Management of Technology (MoT)

- 11.3.1 Data Science & Business Analytics
- 11.3.2 Economics
- 11.3.3 Human Resource Management
- **11.3.4** Intellectual Property Management
- 11.3.5 Pure Mathematics

12. FACULTY OF ARTIFICIAL INTELLIGENCE

(Formerly known as RAZAK FACULTY OF TECHNOLOGY AND INFORMATICS)

- UTM KUALA LUMPUR

12.1 Department of Business Intelligence, Humanities and Governance (BIHG)

12.1.1	Al in Business
12.1.2	Al in Financial
12.1.3	Al in Governance and Policy
12.1.4	Al in Talent Development
12.1.5	Consumer Behaviour Analysis
12.1.6	Future Technoprenuership and Innovation
12.1.7	Market Prediction
12.1.8	Precision Marketing
12.1.9	Responsible AI & Ethics
12.1.10	Social Media Insight

12.1.11 Trust, Risk and Security in Al Models (TRSIM)

12.2 Department of Creative AI (CAI)

- 12.2.1 Augmented reality (AR) / Virtual reality (VR) / Mixed Reality (MR)
- **12.2.2** Creative Industries (e.g. Creation, Information Analysis, Content, Enhancement and Post, Production, Information Extraction and Compression)
- 12.2.3 Graphic Design
- 12.2.4 Industrial Design
- **12.2.5** Metavers

12.3 Department of Intelligence Informatics (II)

12.3.1	Al Advanced
12.3.2	Al Optimization, Al Engineering, Al Fundamentals
12.3.3	Al Programming Technique
12.3.4	Artificial Generative Intelligence
12.3.5	Artificial Narrow Intelligence
12.3.6	Artificial Super Intelligence
12.3.7	Cognitive Science

12.3.8 Computational Intelligence 12.3.9 Computer Vision 12.3.10 Cyber Security **12.3.11** Data Analytics and Visualization 12.3.12 Data Management 12.3.13 Expert System 12.3.14 Explainable Al 12.3.15 Generative Al 12.3.16 Knowledge Representation & Reasoning, Uncertainty Reasoning 12.3.17 Machine Learning, Reinforcement Learning, Deep Learning, Natural Language Processing (NLP) 12.3.18 Mathematics for Al 12.3.19 Quantum Computing 12.4 Department of Smart Engineering and Advanced Technology (SEAT) 12.4.1 Al and Optimisation Methods 12.4.2 Al and Robotics 12.4.3 Al in Manufacturing **12.4.4** Automation Technology 12.4.5 Computational Fabrication and Manufacturing 12.4.6 Intelligent Communication System 12.4.7 Intelligent Environmental Protection 12.4.8 Intelligent Forensic and Risk Engineering 12.4.9 Intelligent Power System 12.4.10 Intelligent Sensors 12.4.11 Intelligent System Engineering 12.4.12 Occupational Safety and Health (OSH) 12.4.13 Optical and Quantum Systems 12.4.14 Renewable Energy and Al **12.4.15** Smart Energy Innovation 12.4.16 Smart Intelligent Materials for Engineering

12.4.17 Smart Medical Technology and Analytics12.4.18 Smart / Intelligent Materials for Buildings

12.4.19 Sustainable Smart Construction