



INSTITUTE OF ENERGY STUDIES & RESEARCH

RECRUITMENT OF PART-TIME LECTURERS

The Institute of Energy Studies and Research is seeking to recruit facilitators/lecturers for diploma, craft certificate and professional courses on part time basis. Candidates with requisite qualifications to handle the following areas are invited to apply.

A. Academic Programs

i. **Electrical and Electronics Engineering**

JOB REF: HR: KP1/5B.2/3/1133

- a. Power Systems and Machines and Utilization
- b. Electromagnetic Field theory
- c. Analogue Electronics
- d. Digital Electronics
- e. Electrical Principles and Electric Circuit Analysis
- f. Industrial Organization and Management
- g. Electrical measurement and Fault diagnosis
- h. Design Estimating and Tendering
- i. Solar Installation Systems
- j. Microprocessors & Microcontrollers systems
- k. Programmable Logic Controllers (PLC)
- l. Control Systems
- m. Power Electronics
- n. Electrical wiring and meter installation technology
- o. Electronic Power Generation, Transmission and Distribution

ii. **Mechanical and Automotive Engineering**

JOB REF: HR: KP1/5B.2/3/1134

- a. Automotive Technology,
- b. Strength of Materials and Mechanics of Machines,
- c. Mechanical Engineering Production Technology Theory and Practice
- d. Mechanical Engineering Plant Technology Theory and Practice
- e. Thermodynamics and fluid mechanics
- f. Operation of Lathe and CNC machines
- g. Materials technology & Metallurgy
- h. Fabrication Technology Theory & Practice
- i. Engineering Drawing & Design(AUTOCAD)
- j. Production Process Technology Theory & Practice
- k. Plant Maintenance and practice
- l. Thermodynamics

- m. Fluid Mechanics
- n. Mechanics of Machines
- o. Pneumatic Conveying System
- p. Galvanization Technology
- q. Hydraulics/Pneumatic systems
- r. Welding

iii. Software Development, Computing and Information Technology
JOB REF: HR: KP1/5B.2/3/1135

- a. Fundamentals of Information Technology
- b. Software Development

iv. Petroleum and Earth Sciences
JOB REF: HR: KP1/5B.2/3/1136

- a. Earth Science and Wave Theory
- b. Geodynamics, Sedimentology and Stratigraphy
- c. Rocks, Fluid and Reservoir Geophysics
- d. Petroleum Geochemistry in Exploration and Exploitation
- e. Petroleum Exploration and Drilling
- f. GIS and Remote Sensing For Exploration And Exploitation

v. Management and Social Sciences
JOB REF: HR: KP1/5B.2/3/1137

- a. Economics of Electricity
- b. Human Resource Management
- c. Finance and Accounting
- d. Strategic Management
- e. Entrepreneurship
- f. Digital Marketing Strategies
- g. Communication Skills
- h. Project Management
- i. Leadership and Supervisory Skills
- j. Grant Proposal writing
- k. Finance for Non-Finance Managers and Directors
- l. Creating a successful Vendor Relationship
- m. Creating Successful Bid Proposals – Supply Chain Management
- n. Purchasing and Supply Chain Management
- o. Life Skills

vi. Supporting Subjects
JOB REF: HR: KP1/5B.2/3/1138

- a) Engineering Mathematics
- b) Engineering Drawing
- c) Physics/Chemistry

B. Professional Courses

i) Fiber Optic Communication

JOB REF: HR: KP1/5B.2/3/1139

- a. Fundamentals of fiber optics
- b. Installation of Fiber Optics on Power Lines
- c. Fiber Optics Design-FTTX
- d. Fiber Optic Analysis
- e. OTDR, VFL, Power Meters

ii) Renewable Energy

JOB REF: HR: KP1/5B.2/3/1140

- a. Solar PV (T1, T2 and T3 Certifications)
- b. Solar Water Heating
- c. Wind Energy Construction and Development
- d. Small Hydro Power Construction and Development
- e. Geothermal Technology
- f. Clean Cooking-Biomass power production
- g. Energy Efficiency and Energy Audits
- h. Air Conditioning and Refrigeration.

iii) Power System and Electrical Safety

JOB REF: HR: KP1/5B.2/3/1141

- a. Distribution Power System Design and Commissioning
- b. Power System Management and Operations
- c. Power System Protection
- d. Cable Jointing and Termination
- e. LV line Construction & Maintenance
- f. HV Transmission Line Design; Construction and Maintenance
- g. Power System Studies using either PSSE, Dig-Silent, NEplan or ETAP
- h. Enterprise Resource planning (SAP, IMS, DCS, FDB, INCMS)
- i. Substation Design; Equipment Installation and Maintenance
- j. Diesel Generator Operation and Maintenance
- k. Electric Motor Rewinding
- l. Switch Gear Operation and Maintenance
- m. Energy Management
- n. Energy Audits
- o. Wave and Tidal Energy
- p. System Control
- q. Asset Management for Utilities
- r. SCADA in Power Systems
- s. GIS & Mobile Communication for Utilities

iv) Occupational Safety, Health & Environment

JOB REF: HR: KP1/5B.2/3/1142

- a. Occupational Safety & Health at Work, Working at Height, Safe Systems of Work and Safe Work Procedures, Behavioral Safety and Safety Leadership & Construction Safety
- b. First Aid at Work
- c. Fire Safety Management at Work
- d. Fire Alarm System Operation and Maintenance
- e. Occupational Hygiene /Chemical Safety.
- f. Environmental Social Impact Assessment Studies & Environmental Audits

v) Internet of Things (IoT): ATMEG, Arduino, Raspberry-Pi, Expressif, PLC

JOB REF: HR: KP1/5B.2/3/1143

vi) Information and Communication Technology:

JOB REF: HR: KP1/5B.2/3/1144

- a. Object Oriented Programming (Java, Python)
- b. Cyber Security
- c. Cloud Computing
- d. Software Development and web Development

vii) Data Analytics; Proficiency in SPSS- Emergo PRO or other statistical software's, Python, R and STATA

JOB REF: HR: KP1/5B.2/3/1145

viii) E-mobility /Electric Vehicles Technology and Charging System, Energy Storage

JOB REF: HR: KP1/5B.2/3/1146

ix) Hydrogen and Fuel Cell Development Technology

JOB REF: HR: KP1/5B.2/3/1147

Requirements for Academic (Diploma and Certificate Courses) lecturers

Candidates are expected to have the following qualifications in their respective area of specialization

- B.Sc. or Higher Diploma in the area of specialization
- At least Three (3) Years Teaching Experience
- Certificate in Pedagogy will be an added advantage
- Master's degree in area of specialization will be an added advantage

Requirements for Professional Courses Facilitators/Lecturers

Candidates should have the following minimum qualifications:

- Mastery of the relevant field
- Registration as a Safety Advisors, Fire auditors and/or First Aid Trainers,
- Proficiency in Fire Alarm Systems Operations and Maintenance
- At least three years' work or Teaching experience in the area of specialization
- Relevant degree/academic qualification

Retired KPLC staff who specialized in the areas above and can be available on part time basis are encouraged to apply indicating their KPLC region of interest.

HOW TO APPLY

Interested persons should submit their applications together with their Curriculum Vitae and Testimonials **online** through visiting Kenya Power's website on <http://www.kplc.co.ke>.

The Curriculum Vitae should clearly indicate the candidate's areas of interest in bullet format for the job that he/she has shown interest.

Applications should be received not later than **Friday 07th October, 2022. Female and PWD candidates are highly encouraged to apply.**

While applying quote the title of the position you are applying for and include your day time telephone numbers, e-mail addresses and names and addresses of three (3) referees.

Only shortlisted candidates will be contacted.

Canvassing will lead to automatic disqualification.

Kenya Power is an Equal Opportunity Employer.