

## Position: Senior IoT Engineer

### Job Summary:

We are seeking a highly skilled and experienced Senior IoT Engineer to lead the design, development, and maintenance of IoT-based smart metering solutions in the renewable energy sector. The ideal candidate will bring deep expertise in embedded systems, communication protocols, and remote data acquisition, with a strong background in the energy and utilities domain. This role is critical in driving innovation and efficiency through advanced IoT technologies that support sustainable energy management.

### Key Responsibilities:

#### Design & Development of IoT Systems:

- Develop and maintain AMR (Automated Meter Reading) systems for accurate energy data acquisition.
- Architect and implement MDM (Meter Data Management) and MDP (Meter Data Processing) solutions for efficient data storage, validation, and analysis.

#### Hardware and Firmware Engineering:

- Design electronic circuits and PCB layouts for telemetry and smart metering devices like DCU, IMDAS.
- Develop embedded firmware using Embedded C and Python to control sensors, actuators, and communication modules.

#### Communication Protocol Integration:

- Implement and troubleshoot RS485, RS232, IR, GSM, RF 866 MHz, and Bluetooth communication interfaces.
- Integrate higher-level protocols such as MQTT, MODBUS, DLMS/COSEM for reliable data reading and transmission.

#### System Testing & Validation:

- Conduct field and lab testing to ensure system performance under diverse environmental and electrical conditions.

- Identify and fix issues related to communication, data accuracy, and system integrity.

### **Cross-Functional Collaboration:**

Work closely with software teams, data analysts, and utility clients to ensure timely project delivery and optimal system performance.

### **Required Skills:**

- Strong proficiency in Embedded C, Python, Electronic Circuit Design and PCB layout Design
- Experience with IoT protocols: MODBUS, DLMS(Gurux stack), MQTT, UART, SPI, I2C
- Familiar with energy metering, data concentrator units (DCUs),
- Ability to troubleshoot complex hardware/software integration issues

**Educational Qualifications:** B.E/B.Tech/M.E/M.Tech/Msc in Electrical & Electronics, Electronics & Communication, Electrical, Electrical & Instrumentation or equivalent

**Experience:** 7+ Years

**Location:** Bengaluru