

ERPNext Engineer – Self-Hosted ERP/PLM Systems

Role specification: purpose, ownership, essential skills and desirable background

Salary: Competitive

Location: Ely, Cambridgeshire (a city repeatedly voted among the best places to live in the UK)

Employment Type: Full time, permanent

1. Role purpose

UBIETY Technologies Ltd develops precision Edge-AI measurement instruments serving energy-transition, industrial and healthcare markets, and is putting in place a company-wide PLM/ERP/BPM framework as the digital backbone of the business — from engineering bills of materials through manufacturing, procurement, stock, projects and HR. We require an engineer with proven, hands-on experience of deploying and managing ERPNext (or an equivalent Frappe-based system) *in-house on a self-hosted Linux server*, to own the deployment end to end: infrastructure, installation, configuration, business-process mapping, data migration, integrations, training and go-live, followed by ongoing administration and continuous improvement. The system is on-premise by design; this is not a cloud/SaaS administration role. The post holder will work closely with engineering, operations and management, integrating the ERP with our accounting platform and our quality and product-lifecycle processes, and will join a high-performance team operating under core SCRUM principles.

2. Primary ownership

Area	Expected ownership
Deployment & infrastructure	Installation of ERPNext/Frappe (bench) on an in-house Linux server: MariaDB, Redis, Nginx, TLS certificates, DNS, firewalling, scheduled backups, tested restores, disaster-recovery plan and system monitoring.
System administration	Version upgrades and patching, user accounts, role-based permissions, security hardening, performance tuning, log review and capacity planning.
Configuration & customisation	DocTypes, workflows, naming series, print formats, notifications, custom apps and server/client scripts (Python/Frappe, Jinja), reports and dashboards.
Business-process mapping	Items, eBOM/mBOM and engineering change control (PLM); manufacturing work orders and routing; buying, selling and stock; projects; HR — mapped onto ERPNext modules with our process owners.
Integrations & data	REST API integrations, including with our cloud accounting platform; barcode/labelling; e-mail; migration and validation of legacy data.
Training & go-live	User documentation and training, UAT coordination, phased go-live support and post-go-live stabilisation.

3. Essential skills and experience

Skill group	Required competence
ERPNext in production	Demonstrable experience deploying <i>and</i> managing a self-hosted ERPNext (or Frappe-based) system in production — not evaluation or sandbox use only.
Linux server administration	Ubuntu/Debian server administration: users and permissions, systemd, networking, Nginx, TLS, firewalls, cron, shell scripting, monitoring and troubleshooting.
ERPNext stack	Frappe bench CLI, MariaDB administration and tuning, Redis, background workers/queues, site management, backup/restore and upgrade procedures.
Development	Python for Frappe customisation; SQL for reporting and data work; Git-based configuration and change control.
ERP domain knowledge	Manufacturing ERP concepts: item master, BOMs, MRP, work orders, stock valuation, procurement and sales cycles.
Security & access	Server hardening, TLS everywhere, VPN/secure remote access, role-based permission design, encrypted off-site backups, GDPR-aware handling of personal data and audit logging.
Reporting & BI	Query and script reports, dashboards and KPI/OKR tracking views, scheduled exports to Excel/CSV, and clear management-information packs for monthly business reviews.
Operations & support	Monitoring and alerting, scheduled maintenance windows, incident response with documented runbooks, master-data governance (units of measure, item coding, supplier records) and first-line user support.
Continuous improvement	Post-go-live iteration from user feedback; process automation with Frappe automations, assignment rules and notifications; periodic system health checks and housekeeping.
Ways of working	Clear written documentation and user training; requirements capture with non-technical process owners; disciplined change management on a live business system.

4. Desirable background

- Integration experience with cloud accounting platforms (e.g. Xero, QuickBooks) and awareness of HMRC Making Tax Digital requirements.
- Containerised or automated deployments (Docker, Ansible); virtualisation; RAID/UPS and small-server-room practice.
- Experience in a small engineering/manufacturing company wearing multiple hats; ISO 9001 QMS environments.
- PLM/engineering-change processes and CAD/PDM-to-ERP data flows; barcode-driven stock and shop-floor data capture.
- Frappe HR, CRM and Projects modules; print-format and controlled document-numbering design aligned to a QMS.
- Virtualised test/staging environments and rehearsed, reversible upgrade practice on live business systems.
- Monitoring stacks such as Prometheus/Grafana; fail2ban and intrusion-detection basics for internet-facing services.

Employee benefits

- Modern, fully refurbished Ely offices; free parking; walking distance to Ely rail station
- 25 days annual leave + Bank Holidays, rising to 30 days with service
- Auto-enrolment workplace pension (optional, with opt-out under UK rules)
- Healthcare provided automatically, non-contributory
- 9am–5pm with one-hour lunch; role-based flexible/remote working day
- Cycle to Work scheme; supported team activities (e.g. staff rowing on the River Great Ouse)
- Performance-based share options after 3 years' employment