



Job Title

IT Lead

Job Summary

Kinomica is a precision medicine company that is developing next-generation diagnostic tests to help clinicians prescribe the right drug, for the right patient, at the right time. We acquire large, high-quality phosphoproteomics datasets from clinical samples using our state-of-the-art KScan® platform; through which, we were the first to demonstrate that phosphoprotein signatures can be predictive of drug response in a clinical setting (see [our profile](#) in Nature).

We are seeking a hands-on and driven IT Lead to take ownership of our digital infrastructure, reliability, and security, as we expand from our R&D base into commercial pharma services and routine clinical testing. This role is critical in ensuring that our platform and IT framework is stable, scalable, and commercially compliant, with a strong focus on operational excellence and information security.

The candidate will be involved in building and maintaining the digital systems, processes, and controls required to support operations, while implementing and maintaining an ISO 27001-aligned Information Security Management System (ISMS). You will work closely with all functions to collaboratively design and implement systems that are reliable, compliant, and fit for purpose as the company scales.

This is a hybrid working role, with office days dependent on operational requirements at Alderley Park, Macclesfield, and is line managed by the CPO.

Responsibilities and Duties

Platform Reliability & Infrastructure Management

- Take ownership of system reliability, availability, and performance, ensuring services meet defined uptime and performance expectations
- Design, build, and maintain scalable, secure, and resilient infrastructure across both on-premises and cloud-based environments
- Lead investigation and resolution of incidents, implement monitoring, alerting, and logging systems, performing root cause analysis and enacting long-term fixes
- Support capacity planning, performance optimisation and design evolution as usage scales

Security & ISO 27001 (ISMS) Implementation

- Take charge of cyber security, working with company-wide stakeholders e.g. Operations, R&D, Quality and Product, to ensure digital integrity and compliance (hardware, software and cloud)
- Lead the implementation, maintenance, and continuous improvement of an ISO 27001-aligned Information Security Management System
- Ensure infrastructure and systems are designed and operated in line with security policies, controls, and regulatory expectations for clinical and commercial data e.g. FDA QMSR, IVDR, GDPR, GLP, ISO 15189, ISO 13485
- Conduct risk assessments and support the identification, management, and mitigation of security risks, and ensure appropriate access controls, data protection measures, and vulnerability management processes are in place
- Support internal and external audits, ensuring documentation, evidence, and controls are maintained and audit-ready

Automation, DevOps & Continuous Improvement

- Design, develop and maintain infrastructure as code (IaC) to ensure consistency and scalability of environments
- Support and improve CI/CD pipelines to enable reliable and secure software delivery
- Identify and implement opportunities to reduce manual processes and improve system resilience, and contribute to continuous improvement of deployment, monitoring, and operational processes

Incident Management & Resilience

- Define and maintain incident response processes, including escalation and on-call support where required
- Lead post-incident reviews to ensure learnings are captured and improvements are implemented
- Ensure disaster recovery and business continuity processes are defined, documented, and tested

Team Contribution & Leadership

- Work closely with bioinformatics, product, and quality teams to ensure digital systems are reliable, secure, and aligned with business needs. This includes leading the current IT forum.
- Provide guidance on best practices in digital infrastructure design, reliability engineering and information security
- Contribute to documentation, knowledge sharing, and the development of internal standards and processes

IT Operation & Support

- Ownership of IT infrastructure, hardware, networks and systems, including maintenance
- Provide technical support and training to staff
- Coordinate the connectivity of analytical lab equipment (e.g., LC-MS/MS) to the internal network and LIMS for automated data flow
- Oversee the validation, maintenance and continual development of Laboratory Information Management Systems (LIMS), Electronic Lab Notebooks (ELN), and laboratory and commercial digital infrastructure including user interfaces.

The above list of responsibilities is not exhaustive, and the jobholder may be required to undertake other duties commensurate with the level of the role, as reasonably requested by their line manager.

Qualifications, Experience and Skills

Essential

- Proven experience in an IT lead or similar role in a life science or biotech environment
- Experience designing and maintaining cloud-based infrastructure (e.g. AWS, Azure)
- Strong experience implementing or working within an ISO 27001-aligned ISMS
- Experience with end-to-end incident management in production and deployment environments
- Experience with infrastructure as code and automation tools
- Strong problem-solving skills with an analytical and structured approach to troubleshooting
- Excellent organisational and time management skills, with the ability to work to deadlines
- A high degree of personal motivation and the ability to work in a fast-paced, evolving environment

Non-essential, but added advantage

- Experience supporting systems in a regulated environment (e.g. healthcare, diagnostics, or life sciences)
- Experience supporting LIMS and ELN software
- Experience with containerisation and orchestration technologies (e.g. Docker, Kubernetes)
- Familiarity with CI/CD tools and modern software delivery practices
- Experience supporting ISO audits or working with security frameworks beyond ISO 27001