

Dr. Moritz Schüller

Freelance LIMS Consultant

Understanding complex laboratory processes and turning them into maintainable LIMS solutions.

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WORK MODE Germany · remote-first · on-site as required



CORE AREAS

Process Analysis

Solution Design

System Design

Workflow Automation

User Training

MY CONSULTING APPROACH

I analyse laboratory workflows, develop missing process and solution components, and integrate them with existing structures into coherent end-to-end solutions.

Profile and areas of expertise

Laboratory processes often evolve over many years, vary between departments, and still need to be represented in a shared, maintainable system. This is precisely where I support clients.

LIMS CONSULTING SINCE 2023	HANDS-ON PLATFORM Integris LIMS	PROJECT TYPES Replacement · New implementation · Enhancement	ROLES Consultant · Lead Consultant · Freelancer
SECTORS Testing labs · Chemicals · Pharmaceuticals	FOCUS Solution Design & Delivery	GERMAN Native	ENGLISH Business fluent

How I work

I translate laboratory requirements into technically sound, maintainable LIMS solutions. I support both new implementations and the enhancement of existing systems - from process analysis and solution design through configuration to training, documentation, and troubleshooting.

I am particularly effective in assignments that first require a complex system or multifaceted process to be understood and structured. In addition to solution design, I enjoy hands-on work with workflows, scripts, user interfaces, queries, and data imports.

My deepest product experience is currently with Integris LIMS. I familiarise myself with new LIMS platforms in a structured and largely self-directed way through documentation, exploratory work in test environments, and practical use cases. This approach enabled me to take responsibility for client work within a short time and progress to Lead Consultant.

Why clients engage me

■ Harmonise different laboratory processes within one LIMS solution ■ Design new LIMS structures and enhance existing systems ■ Translate requirements into data models, workflows, and permissions ■ Model master and transactional data consistently ■ Enhance configurations, scripts, and system logic	■ Design intuitive interfaces and dashboards ■ Prepare data migrations and structured imports ■ Specify technical interfaces and data mappings ■ Train users and facilitate workshops ■ Support solutions through to implementation
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Key project

Legacy system replacement and harmonisation of complex laboratory processes

Regulated testing laboratory · 2023 to present

Legacy system replacement · End-to-end process design · Lead consulting · Hands-on configuration

PROJECT OBJECTIVE Replace a central legacy system while retaining and migrating existing data. The new LIMS is intended to digitise a significantly broader range of laboratory processes. Historically different practices across multiple departments must be harmonised within a shared, maintainable solution, while existing integrations with external systems and established organisational structures need to be accommodated.

ROLE Joined the ongoing project as a consultant, progressed to Lead Consultant, and temporarily assumed project management responsibilities. Since becoming self-employed, I have continued to provide direct consulting support to the same client.

Scope of responsibility

■ Capture, analyse, and harmonise laboratory processes ■ Develop and integrate missing subprocesses ■ Design and implement workflows and trigger scripts ■ Master and transactional data modelling ■ Develop role-based access concepts	■ Design core and cross-functional processes ■ Design user-friendly screens, queries, and dashboards ■ Develop import strategies for structured datasets ■ Analyse issues and coordinate with software development ■ Run workshops, demonstrations, and training sessions
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Contribution and outcome

Existing and newly developed process components were integrated into an end-to-end laboratory process and supplemented by workflow automation.

The resulting process spans order creation and work planning through result entry, review, and approval. The required data relationships, access controls, guided user workflows, and import mechanisms were also designed and implemented.

SYSTEMS AND METHODS Integris LIMS · iScript · Workflow and trigger configuration · Process modelling · Data migration · Access control concepts

Further project references

Mobile offline data capture during sampling

Chemical manufacturer · Existing LIMS · Project during employment, 2023-2025

Mobile data capture · Technical demonstration · Pre-Sales · Configuration

PROJECT OBJECTIVE Extend an existing LIMS with a mobile solution for recording field parameters without network connectivity and transferring the data to the LIMS at a later stage.

ROLE Consultant with technical pre-sales responsibility and subsequent support during setup.

Responsibilities and outcome

- Analyse sampling protocols and determine required data
- Select parameter types and data structures for offline use
- Configure a client-specific demonstration environment
- Design extensions within the product capabilities
- Prepare and deliver a technical online demonstration
- Provide functional support during subsequent setup

Outcome: The client's workflow was configured in a dedicated demonstration environment and presented in a technical product demonstration. The demonstration supported the decision to adopt the solution; I subsequently provided functional support during setup.

LIMS implementation to replace paper-based laboratory processes

Pharmaceutical manufacturer · Project during employment, 2023-2025

New implementation · On-site process analysis · Proof of Concept · Project coordination

PROJECT OBJECTIVE Digitise established paper-based testing processes through a new LIMS implementation.

ROLE Contributed to the proof of concept and subsequently led the implementation both functionally and organisationally. Consulting and configuration remained the main focus of my work.

Responsibilities and outcome

- Analyse on-site processes and map a subprocess in the proof of concept
- Structure user requirements into project workstreams
- Derive and plan project tasks with the client
- Deliver introductory training on site
- Configure key system components
- Coordinate the project and onboard a new consultant

Outcome: The proof of concept supported the decision to implement the LIMS. An initial laboratory testing process was completed on schedule, meeting all agreed functional requirements. The solution was built modularly with end-to-end traceability of measurement results to the equipment and materials used, facilitating subsequent extension to GMP products.

Skills and qualifications

PROCESS & SOLUTION ■ Process analysis and requirements engineering ■ End-to-end process design ■ Master and transactional data modelling ■ Workflow, access control and user interface concepts ■ Queries, dashboards, and reporting ■ Import and migration strategies	TECHNICAL IMPLEMENTATION ■ Integris LIMS configuration ■ iScript (Integris LIMS), BASIC and Python ■ Workflow, trigger and UI configuration ■ Role-based access control, master data and import configuration ■ Troubleshooting and root-cause analysis ■ Local AI-assisted code analysis with expert review and verification	CONSULTING & ENABLEMENT ■ Lead and facilitate technical workshops ■ Bridge laboratory teams, project organisation, and development ■ User training with practical exercises ■ System and pre-sales demonstrations ■ Onboarding new consultants ■ Functional ownership of projects and workstreams
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Quality management and regulatory environment

■ Project experience in an ISO/IEC 17025-accredited testing laboratory ■ Pharmaceutical project designed for later extension to GMP products ■ Traceability of measurement results to equipment and materials	■ Knowledge of ISO 9001, ISO 19011, EudraLex Volume 4 including Annex 11, and 21 CFR Part 11 ■ Certificate in Computerised Systems Validation ■ Additional Certificates: GMP Auditor · GMP Expert · Quality Management Specialist · Quality Auditor
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Education, professional development and employment

EDUCATION & CERTIFICATIONS Doctorate (Dr. rer. nat.) in Pharmaceutical Sciences, Martin Luther University Halle-Wittenberg M.Sc. in Chemistry · B.Sc. in Chemistry Computerised Systems Validation Specialist GMP Auditor · GMP Expert Quality Management Specialist · Quality Auditor	EMPLOYMENT & LANGUAGES Since 2025: Freelance LIMS Consultant 2023-2025: Consulting Project Manager, focused on hands-on LIMS consulting and Lead Consultant responsibilities German: Native speaker English: Business fluent
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