
Role Specification

Job title: Catalyst Testing Group Lead

Department: Catalysis

Location: Columbus, Ohio, USA

Date: January 2023

The role within the Company

This newly created position will be required to lead a team of development engineers in broad-spectrum tasks supporting technical demonstration of Velocys' microchannel technology at both laboratory-scale and or the development of materials-handling techniques, necessary to the commercialisation of the technology.

The developments involve continuous processing of hazardous gas and liquid streams at elevated temperatures and pressures. Regular activities range from project management to active participation in testing execution.

Typically, the team lead will be attached concurrently to two or more primary areas of inquiry, and is responsible for managing each project through definition, planning, execution, reporting and close-out. This will be achieved via interaction with the technology task leader, and direct reports, as appropriate. Associated assignments can include any area of test or analytical methodology, up to development of a new methodology and interaction with engineering to create a completely new apparatus. Once created the team leader uses test systems to produce required results, meeting reliability and quality standards according to an established schedule. Furthermore, the successful candidate will be able to identify anomalies in testing data and apply clear process to investigate and communicate the results. This will be achieved by applying a detailed, thorough, consistent, and disciplined approach, with the production of concise written and verbal communications, including the drafting of technical documents. In addition, the candidate will draw upon previous experience of mentoring and coaching team members and possess a passion for developing personnel and scientific based technology.

Responsibilities

- Coordinate testing personnel and supervise performance of assigned technical tasks
- Subject matter expert in test system functionality and operation, gas analysis by GC, reaction performance calculations and data analysis.
- Interact with technology representatives to define testing requirements and devise effective approaches to achieve the requested service.
- Effectively operate assigned assets according to a defined schedule
- Lead safety assessments for short-term work or hazard analysis (PHA) for permanent installations.
- Mentor, develop and deploy junior staff to achieve your technical responsibilities.
- Understand corporate and team goals and arrange work priorities accordingly.
- Maintain accurate and complete documentation for testing projects and associated equipment and methods. Train operators and review output for completeness and correctness.
- Follow a clear problem-solving process and deliver reports of the findings and remedies.
- Capture innovation and foster continual improvement in the selection of equipment, software, operational philosophies and business processes.

- May participate on the EHS committee and lead sub-committees.
- Expectation of off-hours availability in support of operating equipment.
- Application of safe working practices relevant to handling of compressed and potentially hazardous or toxic gases, chemicals, and installation-related mechanical tasks such as fabrication and plumbing.

Organisational interactions

- Immediate supervisor: Senior Deployment Engineer
- Next level supervisor: Vice President of Catalysis
- Supervises testing team, including technicians, scientists, and engineers

Education and experience

- Minimum B.S. in chemical engineering or scientific discipline, e.g., Chemistry, Physics or equivalent industry based practical experience.
- Experience demonstrating application of skill in relevant setting.
- Proven effectiveness in managing small projects against schedule and budget.
- Experience supervising technical staff and projects.
- Experience developing cost and labour estimates.
- Experience with data management and analysis using Excel-based tools.
- Experience writing reports and presenting findings of technical studies.
- Experience working with engineering teams for test system build or modification.
- Demonstrated experience implementing different types of analytical solutions, including sampling and characterisation methods, and analysis of uncertainty.
- Experience with specification and sourcing of process equipment, considering chemical compatibility, functionality, and controls.
- Previous vendor interaction and collaboration with the ability to follow a clear work process and manage client expectations.
- Ability to understand one's own limits and seek assistance when necessary.
- Demonstrable comparative analysis skills via application of different solution alternatives, coupled with strong decision-making abilities.
- Able to work effectively within a cross-functional project team and converse on all levels
- Proficient in MS Office to include Microsoft Project.

Contact

Please send your CV and any additional information to support your application to:

careers@velocys.com.

