



**Location: Houston, Texas**  
**Job Type: Regular / Full Time**  
**Reports to VP of Engineering**

### **Chemistry Manager**

1<sup>st</sup> Detect, a fast growing spin-off company developing next generation, miniaturized chemical detectors (mass spectrometers) is seeking a Chemistry Manager specializing in mass spectrometry instrumentation. The manager will support the development and implementation of new technologies for 1<sup>st</sup> Detect's mass spectrometer-based product line. The manager will also work with the SW, ME and EE teams to help develop and refine the instrument.

- Minimum Required Qualifications:
  - MS/ PhD in Analytical Chemistry, Physical Chemistry or related field and 8 years industrial experience
  - 5+ years technical experience as a Senior Developer in the mass spectrometry field
  - Experience designing and troubleshooting mass spectrometers and/or vacuum instrumentation
  - Proven track record of analytical and problem solving skills
- Principle Responsibilities will be:
  - Chemistry department management provides project planning, resource planning, budget generation and performance to budget, perform department performance reviews and status tracking
  - Preference will be given to candidates that have worked with, designed, and / or built chemical detection instruments, in particular: miniature, portable, or ruggedized field instruments
  - Provide technical leadership for instrumentation design and application development
  - Documentation of development efforts in the form of Design proposals, system requirements, application notes and technical presentations
  - Provide technical customer support for 1<sup>st</sup> Detect's mass spectrometer based product line
  - Support manufacturing and engineering teams by performing system level functional testing of miniature mass spectrometer instruments
  - Collaboration with engineers to improve instrument design and increase functionality
  - Test data collection, processing, interpretation, and documentation
- Desirable Experience:
  - Project planning, resource management, budgeting and personal management skills
  - Experience in the Explosive Trace Detection field (TSA, ECAC), Narcotics detection field
  - Design, maintenance, and operation of mass spectrometry instrumentation
  - Design, maintenance, and operation of high vacuum instrumentation
  - Experiment design, test plan generation
  - Ion trajectory simulation (e.g. Simion)
  - Engineering or software education or experience would be a plus
  - Preference will be given to candidates with active security clearance must be able to obtain and hold a clearance
- The ideal candidate will be:
  - Able to deliver projects on time
  - A motivated self-starter that is able to assume responsibility and delegate task
  - Able to communicate complex designs and analytical results effectively to non-technical team members
  - Willing to learn concepts and principles from multiple disciplines (chemistry, electronics, and software)
  - Motivated to work as part of a management team

1<sup>st</sup> Detect revolutionizes the chemical detection market by leveraging the analytical performance of a mass spectrometer, in a transportable instrument. The instrument is capable of satisfying the chemical detection requirements for a variety of markets, including industrial, food and agricultural, security, and defense. As a part of the 1<sup>st</sup> Detect team, you will have the opportunity to develop and expand your career, while interacting first hand in a group of talented and dedicated engineers and scientists.

Apply at [www.1stdetect.com](http://www.1stdetect.com) (careers tab)