



## Job Description

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<b>Position Title:</b>	<b>Senior Scientist, Molecular Biology</b>
<b>Reports to:</b>	Director, Business Development
<b>Department:</b>	Research & Development
<b>Shift/Location</b>	1 <sup>st</sup> M – F in Centennial, CO
<b>Hours:</b>	Full Time (40+ per week)
<b>Education:</b>	Ideally MS in Molecular, Cellular Biology or Biochemistry (B.Sc. and PhD candidates will be evaluated on a case-by-case basis)
<b>Experience:</b>	5 – 7 years in a regulated environment within the biologics, medical device or pharmaceutical industry
<b>Salary:</b>	Competitive salary, bonus structure and benefits package commensurate with experience

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### Position Summary:

Under administrative direction, the incumbent is responsible for the creation of new laboratory department within LABS Inc. that is focused on performing molecular and cellular related basic research and routine sample testing. The incumbent will be instrumental in the identification, purchasing and implementation of new equipment for the execution of molecular biology experiments. The incumbent will also be responsible for creating standard operating procedures (SOP's) for each new piece of equipment as well as ancillary tasks and activities related to the general day-to-day operation, maintenance and growth of the molecular biology department.

Once the laboratory is operational, the incumbents' focus will shift to the design and development of a variety of molecular and cell biology assays. Such assays include but are not limited to: nucleic acid isolation, purification and amplification using PCR, RT-PCR single marker and multiplexed gene arrays, in addition to various protein isolation and characterization assays to support entry into the Regenerative Medicine, Cellular Therapy and Biologics industries. Molecular based assays may also need to be designed and developed for use in our other departments, such as Microbiology, Infectious Disease and/or Immunogenetics.

The candidate is expected to provide creative concepts, analysis and project management expertise as it relates to departmental and corporate responsibilities. When requested, this position will also provide technical guidance and consultative support to the other corporate departments and satellite laboratories.

**Experience:**

- The incumbent must possess 5 – 7 years of molecular biology/cell biology related experience in a laboratory setting preferably in a medical device, pharmaceutical, or biologics company and possess an advanced knowledge of molecular biology techniques and methodologies both in practice and theory. In lieu of industrial experience, a Certified Laboratory Specialist in Molecular Biology [CLSp(MB)] is recommended.
- Flow cytometry and cell sorting experience is a plus as is ability to work with fluorescent/ luminescence spectrophotometer, imaging and microscopy related equipment and experimental protocols
- Supervision or management of a laboratory staff and/or department is a plus
- Project management experience is highly desirable
- Hands-on experience related to any of the following source materials or disciplines is a significant advantage;
  - Hematopoietic or mesenchymal stem cells derived from adipose, amnion, bone marrow, cord blood, muscle, whole blood etc.
  - Differentiated cells obtained from clinical biopsies and/or Master Cell Banks
  - Work related to the repair or regeneration of bone, cardiovascular cartilage, neural, skin or soft tissues

**Knowledge:**

- Solid understanding of the theory behind and applied uses for protein and nucleic acid assays
  - Western/Southern blot, DNA/RNA extraction, sequencing and purification, gel electrophoresis, PCR, RT-PCR, isolation and purification techniques, gene expression arrays, primer/probe creation and synthesis
- Knowledge of immunological assays for cytokine (CD markers), intra-cellular markers and cell surface marker assays using ELISA, RIA and other common agglutination assays
- Deep appreciation of the molecular signaling pathways and cellular differentiation
- Solid grasp of cGMP, cGMP and/or ISO guidelines and methodologies for devices, pharmaceuticals, cellular therapies and/or biologics
- Familiarity with regulatory requirements for biologic and medical device product applications (e.g. 510k, PMA, IND, BLA etc).
- Knowledge of in-vitro assay development and validation for molecular biology and immunological assays.

**Skills:**

- Excellent organizational skills.
- Excellent written communication skills; including technical writing, editing and proof reading of protocols, manuscripts and final reports.
- Excellent interpersonal skills.
- Strong computer skills with MS Excel, Word, Project, Power Point and statistical graphing packages
- Detail orientated with superior statistical data analysis capabilities
- Experience with handling biohazardous material (human tissue, biological, radioactive and chemical material)