



# Example of Production Scientist Job Description

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Our innovative and growing company is looking for a production scientist. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for production scientist

- Lead/contribute to various production chemistry-related projects as needed
- Identify process bottlenecks and work closely with process development on improvements
- Identify automation opportunities and help co-develop solutions with the automation group
- Assist with manufacturing support projects, which include the execution of laboratory experimentation, and the analysis/dissemination of technical information necessary to manufacture plasma-derived products
- Provide technical support to Quality Operations regarding deviation investigation, process validation, change management/control, material change control, and CAPAs
- Anticipate potential problems and design preventative solutions
- Maintain an appropriate level of documentation and communication through timely and thorough drafting and execution of protocols and reports in support of R&D process development, technology transfer, manufacturing improvement, and deviation investigation
- Coordinate scientific and investigative studies through collaboration with internal customers, academic research organizations, contract laboratories, , and think creatively and provide technical justification for novel concepts and approaches
- Perform fundamental literature and patent searches related to activities and develop alternative strategies, if necessary
- Maintain an awareness of and compliance with current Good Manufacturing Procedures

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- This position requires a very sound technical background and direct interaction with Process Development, Quality Assurance, Quality Control, Project Management and Sigma-Aldrich customers
  - The desired candidate will have at least 2 years of related work experience in an industrial setting
  - Qualified candidates should have deep and broad knowledge and understanding of lentiviral production and host cell packaging systems
  - Must also have strong cell culture and molecular biology skills including molecular cloning, genomic and plasmid DNA purification, RNA isolation, PCR and RT-PCR and the ability to design basic and engineered recombinant protein expression constructs
  - Previous experience in mammalian cell line engineering/genome editing via RNAi, ZFN and CRISPR technologies is strongly desired
  - Working knowledge of bioinformatics is essential