

Manufacturing Associate II

About: Vector Laboratories is seeking a talented and highly motivated individual to join our growing team. As an organization known for its culture of service, reliable products and unmatched technical expertise, our employees are passionate about the impact and quality of their work. The opportunities we provide to work collaboratively and build trusting relationships in a team-oriented environment make Vector Laboratories an ideal place to learn, flourish and contribute to scientific advancement. We genuinely value diverse perspectives and ideas and strive to demonstrate how this approach results in success. With 50 years of history, Vector Laboratories boasts an unparalleled reputation in protein labeling, detection, and conjugation. Our recent mergers and acquisitions have significantly expanded our portfolio, serving the biopharma industry, academia, life science tools, and diagnostics, providing comprehensive solutions to the life science industry. We are looking to take Vector Laboratories to new heights and hope you'll consider joining our globally impactful team!

Job Summary: The Manufacturing Associate II is primarily responsible for manufacturing Vector's Products according to established advanced procedures and documenting all work in production batch records using established good documentation practices. The Manufacturing Associate II will operate, maintain, and troubleshoot standard laboratory equipment according to established procedures, work independently with minimal supervision on assigned tasks. Technical expertise should include strong knowledge of general laboratory safety and practices, knowledge of modern synthetic organic chemistry, multistep synthesis, and purification technique.

Responsibilities:

- Performs multi-step synthesis at milligram to multi gram scale according to established routine and advanced procedures
- Documents all manufacturing steps as they are performed using good documentation practices
- Performs the purification of target compounds through column chromatography (including normal and reversed phase, ion-exchange), utilizing both manual and automated techniques
- Purify volatile organic compounds via vacuum distillation
- Understands and interprets analytical results (HPLC, LCMS, GCMS, UV-vis, TLC)
- Performs routine and advanced reagent preparation for inventory and finished goods
- Works with hazardous materials following specified safety precautions including small to medium scale reaction with sodium azide, sodium hydride, lithium aluminum hydride, DIBAL-H, n-butyl lithium and/or similar metalorganic reagents
- Performs sulfonation reaction using fuming sulfuric acid (up to 35% of SO₃@H₂SO₄)
- Reduce organic azides using Shaker hydrogenation apparatus and 5% Pd at charcoal
- Assists in bottling and kit packing as needed
- Performs in-process testing as required
- Maintains a clean, orderly and safe laboratory environment following health and safety guidelines
- Performs other duties as assigned

Job Qualifications (Experience, Education, Knowledge, and Skills):

- BS or BA degree in Chemistry. An A.S./B.S. degree in a related field will also be considered with relevant laboratory experience
- 3–5 years of related experience or equivalent combination of education and experience
- Ability to accurately and efficiently follow directions
- Ability to work well under pressure and time constraints while maintaining a high level of work quality
- Ability to work with chemicals and organic solvents materials
- Ability to effectively communicate verbally and in writing
- Ability to lift 50 lbs. unassisted

The salary offer will depend on multiple factors which may include the successful candidate's skills, experience, and other qualifications.