

Job Description: Mechanical/Chemical Engineering Intern

The BioProcess Institute is seeking a Mechanical or Chemical Engineering Intern in our North Kingstown, RI location. Our interns play an integral role in the success of The BioProcess Institute and gain comprehensive insight into the exciting world of bioprocessing.

Job Description

- The Mechanical or Chemical Engineering Intern works closely with Engineers on projects suitable for skill level.
- This would include tasks such as bioprocess component measurements, test design, and execution.
- The Intern will be expected to have a level of independence so that tasks may be assigned, and limited oversight is necessary.

Qualifications

- Must be enrolled in a Mechanical or Chemical Engineering and in good academic standing.
- Experience with Process Systems-Ideal candidate will have experience with Steam, Hydraulic and Process Instrumentation. BioProcess and Chemical Experience is preferred.
- Hands on Mechanical Ability-Ideal candidates will have hands-on mechanical experience and proficiency with tools. Some light lifting may be required.
- Microsoft Office Proficiency-Candidates must be able to enter data into Excel and perform routine data summary operations, transfer the charts and graphs into word and PowerPoint.
- Must be comfortable speaking in front of small groups.
- Must be able to lift 20-40 pounds for physical test configurations.
- This is a PART TIME Assignment. Flexible hours, starting at half days or 2-3 days per week, average with some weeks more and some weeks less.
- Ability to work Monday-Friday, 40 hours per week during the summer/winter breaks.
- This is a key position in a small operation with an opportunity to help the business grow. As it grows, this position's role can evolve accordingly, and provide opportunity.
- This position will provide an opportunity to learn and become proficient with BioProcess Technology. You will work with industry experts and get exposure with many of the top companies in and providing components to the BioPharmaceutical Industry.
- Experience with this position will provide you with skills to help qualify you for positions in the desirable BioPharmaceutical Field.

Responsibilities

- Assist Engineers with setup of tests of bioprocess components.
- Develop or improve test fixtures and other procedures for testing components to improve efficiency/safety of test.

The BioProcess Institute

Subject: Mechanical Engineering Intern Position Description

- Provide engineering support to analyze fasteners utilized in bioprocessing applications, utilizing fundamental electrical engineering principles, theories, and techniques.
- Conduct experiments to simulate Bioprocesses and evaluate BioProcess component's performance. Processes include pressurized systems (Steam, Hydraulic, Pneumatic, Chemicals).
 - Process Equipment Set-up-Hands on precision assembly of mechanical and instrumentation systems to detailed specifications in order to deliver proper process performance.
 - Process Equipment Operation-Hands-on operation of computer controlled and manual systems. Verification of proper system function including basic piping and instrumentation troubleshooting.
 - Precision Physical Measurements with calibrated instruments and tools.
 - Monitoring of Data and recording of Observations/Results.
 - Conduct interim/final performance assessments, with use of photography, video, and microscopes.
 - Data Summary and Review, including Word summaries and data analysis/graphing in Excel.
 - Equipment and Facility Maintenance – Ensure the equipment/instrumentation is in working order, well maintained, and ready for experiments, including the use of:
 - Daily Logs
 - Routine Maintenance
 - Preventative Maintenance Program
 - Instrument/Tool Calibration Verification – Ensure and record all equipment/tool/instrument calibration verifications prior to test startup.
 - Precision physical measurements with calibrated instruments and tools.
 - Service Coordination
 - Weekly status update meetings
 - Generation of experimental conclusions for review with staff and sometimes, with external clients.
 - Assisting with the generation and review of reports.
- Write/update SOPs and related documentation.
- Troubleshoot mechanical problems as appropriate for skill level.
- Independent project appropriate to skill level. Document and present results.
- Ordering/receiving parts.
- Perform other technician tasks related to mechanical engineering.
- Obtain working knowledge of company tools used in measurement and visual condition assessments.
- Other duties and responsibilities as required.

A small business in North Kingstown, RI, The BioProcess Institute is a leading global provider of custom-tailored solutions including testing, consulting, and training services for the life sciences and advanced bioprocessing industries. We have an exciting opportunity for a highly motivated individual to join our growing team to help us serve our global reach of clients. This opportunity will help you build your career, develop professionally, and make an impact in a fast-paced, small business that prides itself on its innovative spirit and commitment to integrity. Consider joining a team of talented and dynamic individuals who are making a quality difference in the world of bioprocessing!