



Mechanical Design Engineer

Location: Rockville, MD [100% on-site]

On Demand Pharmaceuticals (ODP) is changing the way we make and distribute medicines—by providing them to everyone, everywhere, every time. ODP is creating innovative manufacturing platforms to enable our vision to produce critical medicines at the point of care and to secure the pharmaceuticals supply chain. As a young organization, ODP offers an exciting opportunity for passionate scientists and engineers to make a difference in the world while developing career paths for advancement. ODP is seeking a Mechanical Design Engineer to execute our long-term vision of commercializing next-generation medicine manufacturing platforms.

Responsibilities:

- Model making, prototyping, and product testing of complex parts and systems associated with the next generation medicine production platform.
- Using CAD, CAE, CAM software to convert ideas to models and plans.
- Working with Innovation, Engineering, and Quality teams to understand parameters of design requests.
- Revising ideas as new requirements arise.
- Identifying new systems and processes to drive quality, efficiency, and cost savings.
- Ensuring all plans and prototypes conform to industry standards and guidelines.
- Developing and owning appropriate documentation.
- Providing general mechanical and/or electrical engineering across multiple projects as assigned.
- Developing and/or maintaining engineering diagrams for all the equipment and control systems.
- Working with ODP's chemists to advance manufacturing capabilities to increase functionality.
- Maintaining ODP's leading edge by creating new technical platforms and capabilities.
- Delivering results in a high paced environment.

Minimum Hiring Standards:

- B.S. in design engineering, mechanical engineering, manufacturing engineering, product design engineering or a related field.
- Experience with CAD (preferably SolidWorks), CAE, CAM for the design and prototyping of compact systems.
- Electrical and or mechanical design, build and performance verification.
- Direct experience with the design and development of custom, automated, manufacturing or process equipment.
- Strong understanding of fluid dynamics and plumbing fluidic and gas systems, heat transfer and temperature control, and machine design of compact systems.
- Ability to work collaboratively with multi-disciplinary cross-functional research teams.
- Strong written/oral skills required, and ability to communicate technical concepts to a non-technical audience.
- Energy and passion to thrive in a start-up environment and to deliver on the mission of On Demand Pharmaceuticals.

Preferred Hiring Standards:

- Individuals with > 5 years of experience and training.
- Masters or PhD preferred.
- Certifications in AutoCAD, ASME, CAEM, CPDM.



- Experience with process monitoring and controls.
- Experience with compact OEM pumps, valves, sensors, and mechanical actuators.
- Experience selecting appropriate polymers and other materials for use with solvents and acids.
- Candidates with experience in continuous processing of chemicals, materials, or pharmaceuticals.
- Experience with industrial manufacturing technologies and processes (e.g. CNC machining, water jetting, 3-D printing).
- Experience with a variety of other engineering programs including AutoCAD, Matlab, PDM Works.

[Please click here to submit an application for this position.](#)

On Demand Pharmaceuticals is an equal opportunity employer. On Demand Pharmaceuticals does not discriminate in employment with regard to race, color, religion, national origin, citizenship status, ancestry, age, sex (including pregnancy, gender identity, or related medical conditions), sexual orientation, marital status, physical or mental disability, past or present military service or any other characteristic protected by law.