

PUMP
PROFILES

Manufacturing Engineer

Hi, I'm a Manufacturing Engineer. What do I do?

- Similar responsibilities to a Production Engineer.
- Support strategic plan to ensure the right infrastructure and processes are in place to successfully implement design builds with respect to cost, quality, schedule, and safety standards.

What am I good at?

- Planning, research, develop and integrate machining tools, processes, equipment, facilities and systems with the latest technology
- Producing quality products to ensure that my company optimizes their capital expenditures.

What I like:

- To communicate, and it is extremely important for my job because, as a manufacturing engineer, I need to be transparent and open with cross functional teams about what I think is going to work in the plant to improve processes and evaluate systems.

Education

- Industrial engineering is a branch of professional engineering that shares many common concepts and theories with other fields of engineering, such as mechanical, chemical, electrical, and civil engineering.



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Design and Development Engineer

Hi, I'm a Design & Development Engineer. What do I do?

- Provide guidance to product development team for the design and customization of production style pumps, also called 'a packaged system'.

What am I good at?

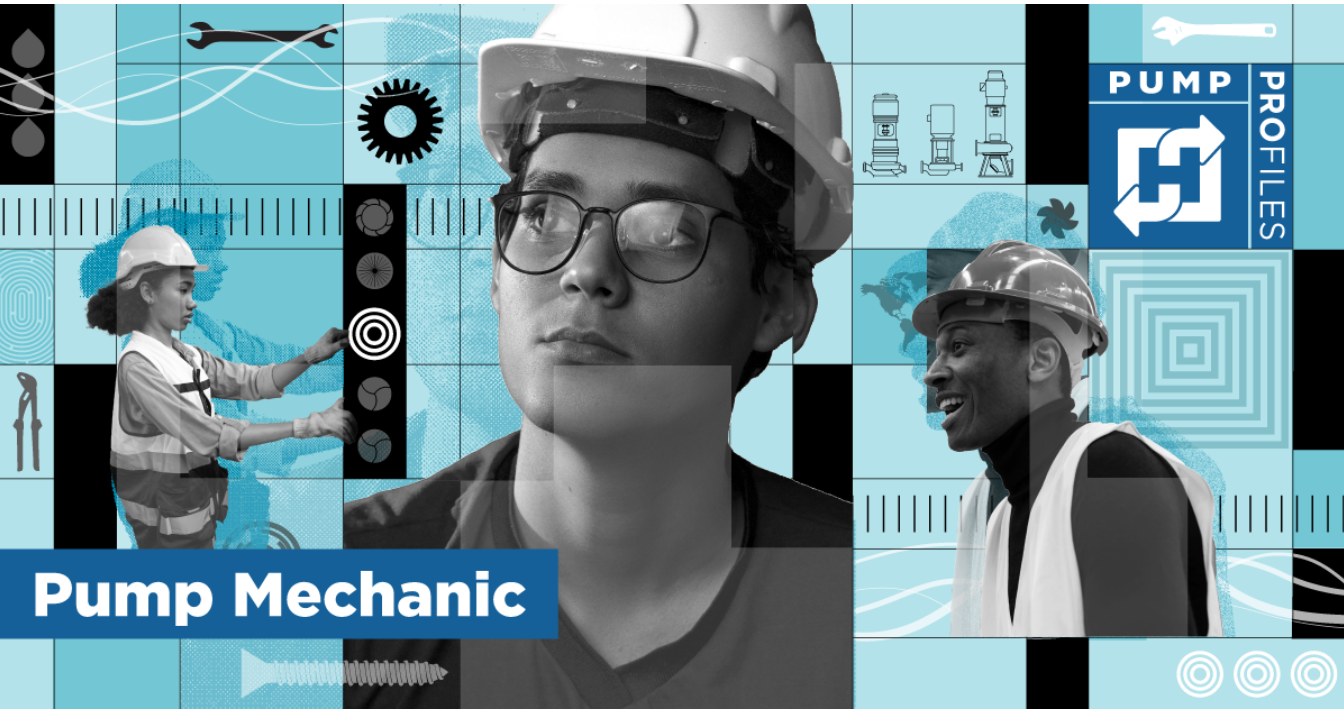
- Analytical, technical, systematic approach to solving problems
- Computer-aided design work, also called CAD to create models and provide analysis to multiple aspects of the design

What I like:

- To solve problems and provide engineering guidance to drafting personnel.
- This allows me to mentor other and give direction to drafters on fit, function and design standards.

Education

- Industrial engineering is a branch of professional engineering that shares many common concepts and theories with other fields of engineering, such as mechanical, chemical, electrical, and civil engineering.



Pump Mechanic

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Hi, I'm a Pump Mechanic. What do I do?

- I work with pumps used in systems like wastewater lift stations, refineries, power plants, and water treatment facilities.
- I inspect, repair, and perform routine maintenance on pumps, motors and couplings used to drive the pump and ancillary components

What am I good at?

- I'm very good at working with my hands, which helps me build or dismantle the pump during maintenance.
- I have to be good at following manuals and procedures that help me properly repair, assemble and reinstall the pumps.

What I like:

- I like working with my hands, problem solving and following processes.
- Diagnostic skills also come in very handy because I sometimes get to troubleshoot what's wrong with a pump when it's not working properly.

Education

- While I don't have an engineering degree, I graduated with my high school diploma and also had a couple of apprenticeships that really trained me well in mechanics.



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Applications Engineer



Hi, I'm an Applications Engineer. What do I do?

- I provide technical expertise in pump selection based on the application criteria.
- I consider the design points and variability, fluid properties and inlet pressure, installation limitations, and end use market to offer the best pumping solution.

What am I good at?

- I'm very good at working with my hands, which helps me build or dismantle the pump during maintenance.
- I have to be good at following manuals and procedures that help me properly repair, assemble and reinstall the pumps.

What I like:

- I like working with my hands, problem solving and following processes.
- Diagnostic skills also come in very handy because I sometimes get to troubleshoot what's wrong with a pump when it's not working properly.

Education

- While I don't have an engineering degree, I graduated with my high school diploma and also had a couple of apprenticeships that really trained me well in mechanics.

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74%

28%

Test Engineer

Hi, I'm a Test Engineer. What do I do?

- I'm responsible for designing test arrangements, providing engineering calculations, and certifying that both pumps and package systems meet specification requirements.

What am I good at?

- I also like troubleshooting and running analyses to solve problems and to identify corrective actions. When I see that something isn't right, I work non-stop to fix the issue.

What I like:

- I like working in a production environment and collaborating with different departments in order to understand the “how’s” and “why’s” of the pumps we build and the applications they serve. This way, it's easier for me to evaluate if a pump or package system is performing as it was intended.

Education

- I have a bachelor's degree in mechanical engineering, but you may also be considered for a pump test engineer position with a degree in industrial engineering.
- Certification in quality assurance is also a big plus for some companies that are hiring test engineers.