HYDRAULIC EQUIPMENT ENGINEER

AVERAGE SALARY: $79,070

EDUCATIONAL REQUIREMENTS:

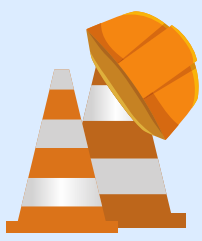
Bachelor of Science (BS) in Mechanical or Civil Engineering
Advanced Education: Master's Degree or PhD in Mechanical Engineering

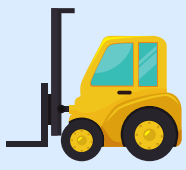
RELATED HIGH SCHOOL CLUBS: Civil Engineering, Robotics

RELATED HIGH SCHOOL CLASSES: Physics, Algebra, Geometry, Trigonometry, Calculus, 3D Computer Drafting

ON THE JOB

1. Design hydraulic equipment systems using computer software
2. Develop conceptual layout of new or revised hydraulic systems on production lines to maximize efficiency
3. Determine materials and components to be used in equipment
4. Perform testing of equipment before it is used and while it is in operation
5. Troubleshoot problems with equipment to improve work flow





RELATED CAREERS:

Mechanical Engineering, Electrical Engineer, Product Design Engineer

EXAMPLES OF EMPLOYERS

1. US Department of Army and Navy
2. Caterpillar Inc
3. SpaceX
4. Northrop Grumman

FUN FACTS:

- Did you know that most attractions at a fair are powered by Hydraulics in one way, shape or form? Many rides, such as the ferris wheel, tower drops, and swinging pendulums, are powered by pressurized oil that lifts up the big heavy arms of the rides and spins you around.
- Hydraulic work because when you push on a liquid, the liquid pushes on something else! This means energy is transferred, and like all energy, hydraulic energy is neither created nor destroyed, only converted to another form.