



video transcript

Day in the Life: Nondestructive Examination Expert

human energy®

My youngest son is 15 years old, and when I tell him that I was working with robots, he couldn't believe it; how an old guy, can be doing such cool things.

My name is Mauricio Calva. I work in the Quality, Asset Integrity, and Reliability Unit. I am responsible for the strategic research and technology development for inspection technology. The objective of this lab is to understand clearly how we can use this technology so we can then go to the facilities to present alternatives to inspection. Some of these systems have been in Chevron for many years and we're just looking for better ways to use this technology. In other cases, this is the first time that they are available to Chevron.

For the last few years, we've been looking very closely to robotic technologies. We need to find ways to get information that we need without having somebody going into these confined spaces or places within our facilities that will expose people to dangerous locations. We can put a machine inside a pipe, this machine will crawl in the pipe, will take pictures and measurements. And AUV's, flying devices, will fly around, will take video and pictures. We are the safety detectives of the company. We are the ones who need to understand what is the condition of the equipment. This information will help the groups to operate safely and we need to use all these fancy technologies to get this equipment to speak to us.

I really enjoy what I do. I don't get to sit just at a desk all day, I need to go out and talk about what I do. The opportunity to take these machines real world, to convince people that this is the right way to do things, it makes it very exciting.