

Robotic Laboratory Automation

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Argon Lab System's brand new line of robotic laboratory automation is a step forward for traditional mundane laboratory procedures.

Through the use of robotic laboratory automation technologies the process of laboratory sampling procedures can be greatly enhanced to increase productivity and efficiency, and reduce downtimes. Analysis can be conducted quicker and cheaper than could previously and operate for more hours of the day; hence making the most out of the laboratory. Materials wastage can also be greatly reduced due to optimised process controls.

Based in Western Australia, Argon Lab Systems designed the robotic laboratory automation system primarily for use in the mining, soil and mineral sampling and analysis industry, in particular 4-acid digest, aqua-regia sampling and assaying. However the same technologies can be applied to almost any laboratory sampling procedure including analytical laboratories for pharmaceutical, food, water, and wine testing, among others. Argon Lab Systems will aim to streamline the sample processing, improving the overall performance and system flow of the laboratory. Robotic laboratory automation systems can be run 24 hours a day 7 days a week producing a much higher rate of total samples processed than previously thought possible. This is a major source of excitement surrounding these systems; higher productivity, and less boring mundane work for laboratory scientists. These systems have a typical return on investment of just a few months, when the higher productivity and labour savings are calculated. Robotic laboratory systems take care of the handling of dangerous acids and toxic chemicals. Thereby increasing the overall OH&S of the laboratory as lab technicians and staff are removed from harms way. These systems can be turnkey delivered. complete ready to begin operation and include all components, installation, initial configuration, security controlled interface as well as induction & industry training. Argon Lab Systems will customise each robotic laboratory system according to each individual clients needs.