MOBILE ROBOTS
Your new favorite lab partner

Powerful laboratory automation systems have enabled scientists to perform high-throughput experimentation and assays that can process hundreds to millions of compounds, samples, or patient specimens across lab environments ranging from drug discovery to clinical diagnostics. Conventional robotic arms have reduced many manual processes, bottlenecks, and inefficiencies in laboratory workflows. Mobile robots take things one step further by providing scientists with even more flexibility and scalability. Experiment with new ways of designing and utilizing lab space. Break up complex processes into tasks occurring on multiple workstations and individual instruments in labs located on different floors or even different buildings throughout your facility or campus. Program mobile robots to transport hundreds of samples among different stations while safely navigating people, equipment, and aisle ways throughout the entirety of a day.

Work around the clock

- Operate instruments and experiments in the lab without requiring human attention.
- Continuous throughput in less time with secure data capture and audit trails.

Safe transportation

- Deliver samples safely among labs and workstations with no concerns about spills or dropped plates.
- Spatial mapping allows for alternate route determination should the preferred path in the laboratory be blocked.

Focus on the science

- Reduce time spent on tedious and repetitive tasks, freeing scientists to focus on complex tasks like planning experiments.
- Reduce errors and improve instrument utilization in the lab.

Greater flexibility and modularity

- Connect workstations and instruments in multiple laboratories within the same campus or facility.
- Seamlessly integrate existing lab instruments and equipment as well as software.
- Switch robots to work on new tasks and protocols quickly and easily.
- Better utilization of laboratory space with little to no modification of facilities whilst leveraging existing infrastructure.

Collaborative

- Onboard sensors and cameras enable mobile robots to navigate instruments and scientists safely.
- Robots and people work collaboratively to increase lab productivity.
- Ability to control the opening and closing of doors, turning lights on and off, controlling elevators, sending real-time alerts, notifications, and audible commands to keep humans up to date with what is occurring.
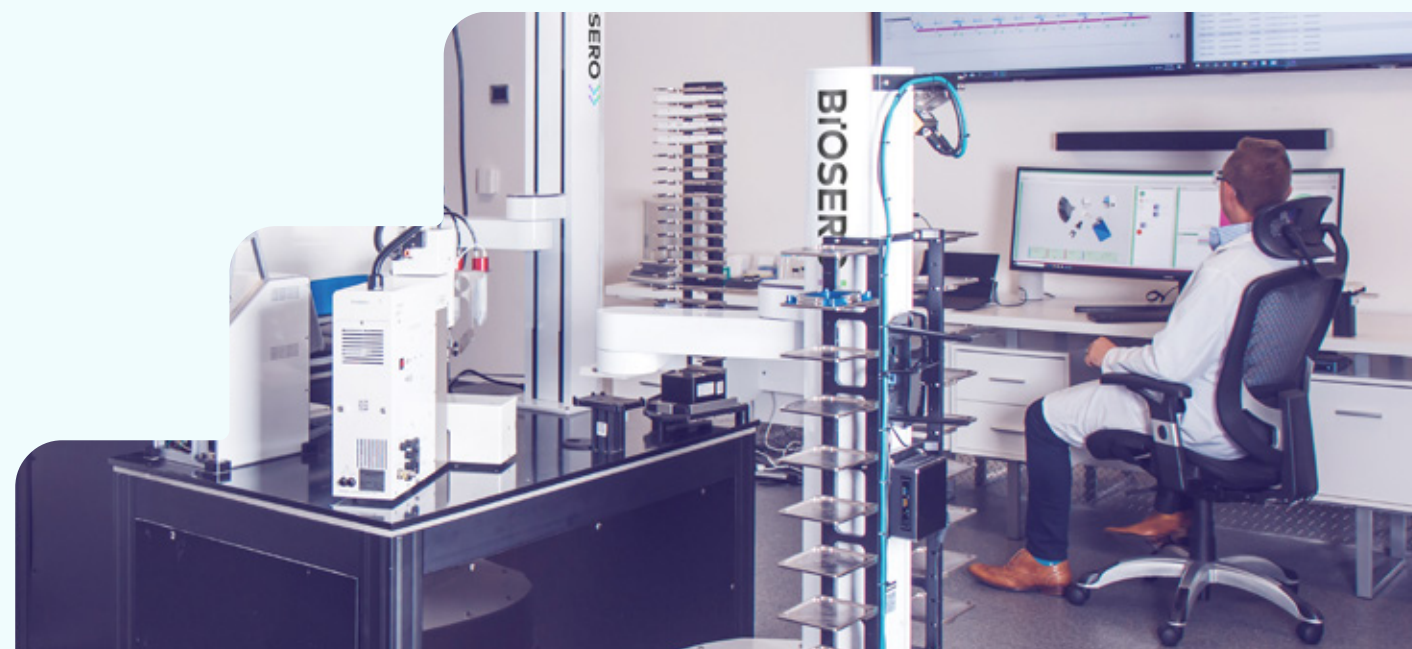
Better decisions in less time, using more data

The Green Button Go software suite is designed to integrate mobile robots, instruments, and workstations in the lab in a cohesive ecosystem. Because our software is hardware-agnostic, we work with a variety of mobile robots on the market, deploying mobile robots in different lab environments safely and easily. Configure different devices and define processes and tasks for mobile robots with an intuitive architecture. Capture data from different lab processes for downstream analysis and manage experiments, processes, and instruments from a centralized interface.

Seamless software integration

Connect mobile robots with liquid handlers, LCMS units, and other lab equipment through a common automation interface.

## Easily incorporate mobile robots into existing workflows

Create and modify workflows and tasks for mobile robots in your lab. Easily draft routines for robots that automate liquid transfers and the movement of consumables, reagents, and samples.

Monitor run status and progress within Green Button Go software suite

Manage experiments, people, processes, and instruments from a centralized, user-friendly interface.

Dynamically adjust protocols and experiments and redirect mobile robots

Schedule and control multiple robots and assays running on several workcells, simultaneously.

Kevin Robot

www.biosero.com
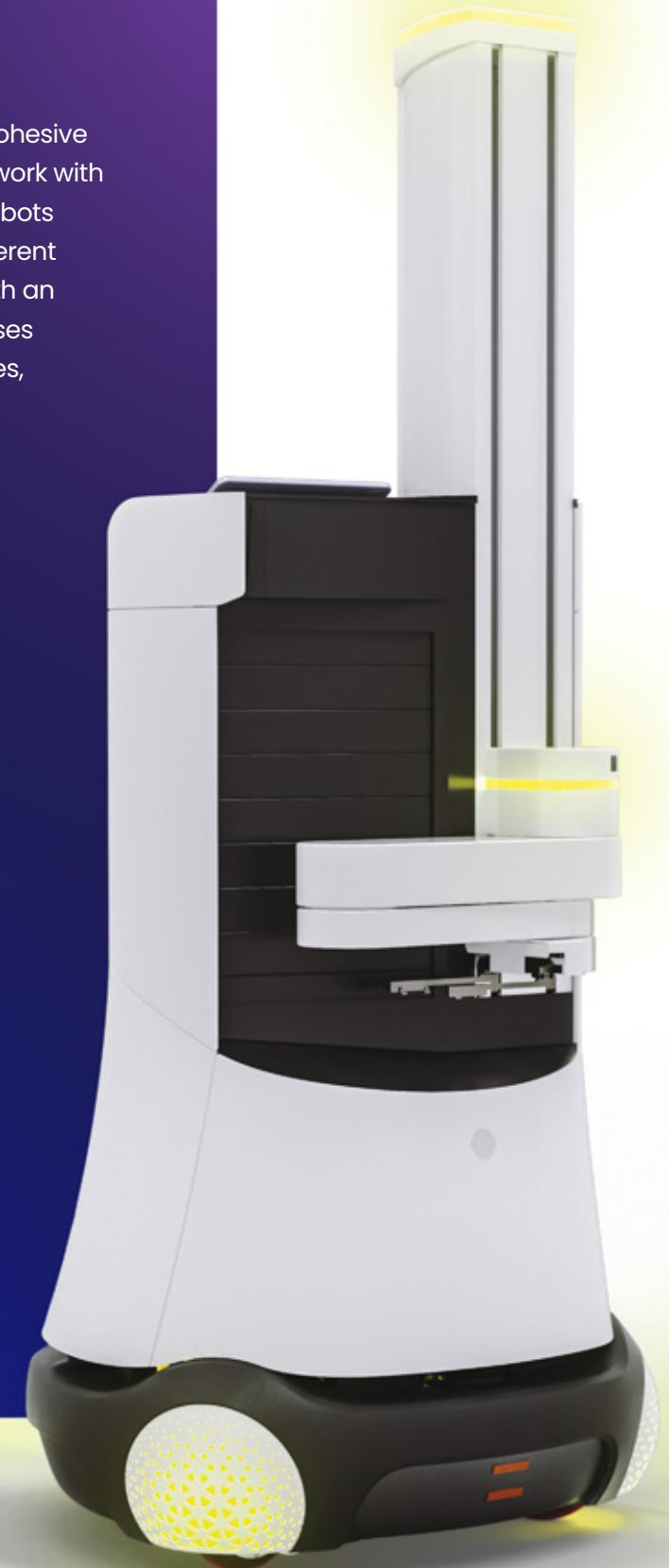
Mobile robots in the lab

Implementing mobile robots in the lab is a cost-effective way for scientists to expand their automation capacity and better utilize their physical space. Use Green Button Go Orchestrator to manage the seamless flow of samples and people in the laboratory. Use Green Button Go Scheduler to allocate orders and set up experiments and assays to run on nights and weekends without constant human oversight.

Workcell to workcell

Process batches of samples and plates on one workcell and then task a mobile robot to transfer the samples to the next workcell for further processing, analysis, or into storage.

Workcell to person

Keep your team's focus on critical work, tasking mobile robots to pick up plates from workcells and move them to scientists working at the bench or in a hood.

Device to device

Task mobile robots to pick up and transport samples and labware between stand-alone instruments, as they work alongside human scientists.

BIOSERO
A BICO COMPANY