

## CASE STUDY

# laboratory informatics with robotics



### challenge



- Workflow between ELN, LIMs, SDMS, instruments, and robotics is immensely complex with many scientific processes and detailed steps to consider in conducting experiments
- Aligning the scientists with business needs and technology constraints

### solution



- Every laboratory is unique in its operations. Here is an example process implemented at a top 10 global biopharmaceutical organization:
- [INFORMATICS] Plan Sample Extraction in LIMS and ELN
  - [ROBOTICS] Locate, Sort and Verify Samples with an Automated Freezer
  - [ROBOTICS] Thaw, Mix, and Centrifuge Samples
  - [ROBOTICS] Remove the Sample Caps with the Decapper
  - [ROBOTICS] Extract Samples with an Automated Liquid Handler
  - [INFORMATICS] Run Samples on the Analysis Instruments
  - [INFORMATICS] Collect Data on the Instrument Software
  - [INFORMATICS] Execute Regressions to Analyze the Data in LIMS

### results



- Saved FTE hours, allowing scientists to spend time where it's needed
- Reduced human error by utilizing robotics
- Designed operations strategy and updated SOPs
- Established metrics to measure operational efficiency and productivity

Contact us to learn how our experienced team can help ensure successful outcomes throughout the product lifecycle.

[www.propharmagroup.com](http://www.propharmagroup.com)  
[info@propharmagroup.com](mailto:info@propharmagroup.com)