Capgemini engineering

Lab Informatics in a Connected Healthcare Ecosystem

- **Customers include 12 out of top 25 medical device companies and industry leaders in each segment**
- **Product engineering for 25+ product categories including class III devices**
- **200+ regulatory submissions across geographies**
- **ISO 13485 certified**

Laboratories in each healthcare segment, be it pharmaceuticals, medical devices, private and public healthcare services and regulatory bodies, are becoming a part of a connected healthcare network. Lab Informatics systems have to provide contextual software-driven capabilities that support a modern connected laboratory's operations.

The way lab informatics systems are designed, implemented and integrated with complementing systems and devices has to address the changes in R&D models, changes in business and commercial models and the changes in the healthcare regulatory environment for each connected stakeholder.

Capgemini is a global leader in the medical devices and life sciences sector. We partner with market leaders to constantly innovate, improve and keep their products market relevant. We help customers to adopt technological advances for a more holistic disease management and to deliver cost effective patient-centered care for enhanced laboratory and clinical outcomes.

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Services for Lab Informatics

As a global systems integrator we address the challenges in a laboratory environment and bring forth the intended benefits from Lab Informatics.

- Increasing laboratory productivity and cost efficiency
- Reduction of labor-intensive, manual activities leading to increased focus on value-added activities such as test result, data interpretation, and decision-making
- Selecting and implementing effective lab-automation and information management strategies
- Improving the impact of lab systems by extended systems integration

Consulting	Application Implementation	Application and Systems V&V	Application Management	Lab Automation
• Lab Informatics portfolio rationalization • Global strategy • Business case development • System selection • Program management	• Solution design and architecture • Application implementation • Application integrations • Cusotm applications • Data migration • Training and reporting	• V&V consulting • Test Desing, Execution, Reporting • Procedure (SOP) Development • Test-Automation-As-A-Utility • Test-Platform-As-A-Utility • Test-Labs-As-A-Utility	• Transition planning and execution • Production support - L1 and L2 • L3 application maintenance • Software provider liaison • Application change control	• Automation processes for sample management, pre/post-analytic steps • Robotic controls • LIMS, ELN, CDS • Technology infrastructure setup • Technical documentation

Our Best Practices

- Global deployment programs and Organizational Change Management
- Customer centric RightShore® delivery model
- Regulatory submissions (510(k) and PMA, FDA QSR 21 CFR 820, IEC 60601)
- Usability for more intuitive operator interfaces
- Communication protocols for interoperability between lab instruments and information systems
- Integrated tool chain across system engineering, development and V&V teams
- Solution accelerators for implementation of mobile medical applications across major platforms

The Capgemini Advantage

- Over 4000 people delivering solutions in the Medical Devices, Life Science and Healthcare sectors
- Over 20 years of experience
- Presence in over 40 countries
- Comprehensive portfolio of Product Engineering and Product Lifecycle Management
- Leadership in Cloud technologies and Cyber Security for Healthcare IT
- Cutting edge IoT solutions for connected healthcare

For more details:

Write to us at: engineering@capgemini.com
Visit: www.capgemini.com/engineering

Success Stories

- Lab automation, process harmonization and LIMS, ELN, CDS integration under a common platform for a bio-technology company
- Re-design of lab informatics master data management processes for a pharmaceutical company
- LIMS implementation and validation at a biopharmaceutical manufacturer
- Reverse engineering and product documentation for a leading LIMS technology platform

About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of 270,000 team members in nearly 50 countries. With its strong 50 year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2020 global revenues of €16 billion.

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