

albert™

# Small Team, Big Impact

Applied Molecules' Competitive Edge with Albert

CASE STUDY



APPLIED MOLECULES

# Small Team, Big Impact

“Albert gives us a competitive edge by providing advanced data management and analysis capabilities typically reserved for industry giants. It's a game-changer that our customers immediately recognize.”



**Nicholas Gripp**  
Senior Chemist

## A Snapshot of Success

Read on to learn how Applied Molecules achieved these results through digital transformation with Albert.

**15%**

15% faster formulation development

**30%**

30% more accurate manufacturing costs

**25%**

25% improvement in chemist productivity

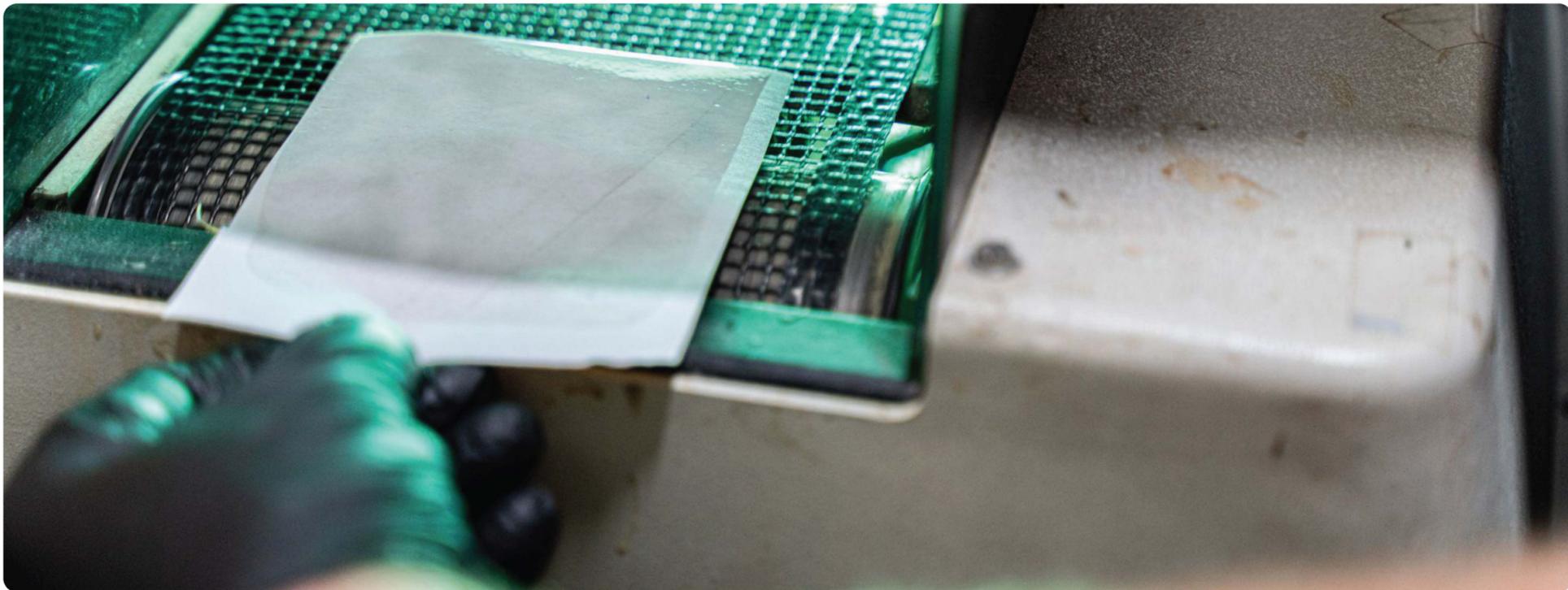
**99.5%**

99.5% inventory accuracy, improved from 95%

**10 mins**

10 minutes to generate an SDS, improved from 24 hrs

# The Challenges of a Growing Chemistry Company



**Bella Snowwhite**  
Material Specialist

Before Albert, we were using tons of Google Sheets. We'd print them out, hand them to people, write notes, and save them in boxes. The data was spread out, and it wasn't easy to communicate between the plants and the lab.

Applied Molecules is a dynamic, young chemistry company at the forefront of materials science innovation. Specializing in cutting-edge sealants, adhesives, and 3D print resins, this agile team of scientists and manufacturers punches well above their weight in a competitive industry dominated by larger players.

As Applied Molecules grew, they grappled with several key challenges:

- 1. Data Management** | Relying on spreadsheets and paper records made data retrieval time-consuming.
- 2. Communication** | Coordination between R&D and manufacturing teams across different locations was complex.
- 3. Resource Limitations** | With a small team, efficiency and automation were crucial to compete with larger companies.
- 4. Inventory Management** | Tracking raw materials and forecasting needs was a manual process.
- 5. Quality Control** | Ensuring consistent product quality and traceability was challenging without standardized systems.

# The Solution: Implementing Albert for Integrated R&D and Manufacturing



**Cameron Darkes-Burkey**

Senior Chemist

Our customers love the detailed labels and barcodes Albert generates for our products. It gives us a really professional look. When a customer says they like a particular batch, we can instantly pull up all the details. It's a level of traceability and professionalism that gives us a big competitive edge.

To address their challenges and accelerate growth, Applied Molecules turned to Albert's end-to-end R&D platform. Albert's comprehensive solution transformed their operations, providing them with capabilities typically associated with much larger organizations.

Here's how Albert's platform directly addressed Applied Molecules' challenges:

## 1. Centralized Data Management Accelerates R&D

**Solution** | All formulations, batch tasks, and property data are now stored in one accessible system.

**Impact** | 15% faster formulation development

- Quick access to historical data for trend analysis and customer inquiries.
- Faster formulation development with built-in Excel replacement (Workbook).
- AI-assisted formulation design to further accelerate innovation.

## 2. End-to-End Platform Streamlines Manufacturing

**Solution** | R&D and manufacturing teams can now easily share information and track progress across locations.

**Impact** | 30% more accurate manufacturing costs

- Seamless transfer of formulas from R&D to production.
- Real-time tracking of manufacturing progress, resource utilization, and batch costs across locations.
- On-site QC validation at manufacturing plants reduces turnaround time for customers.

## 3. Automated Workflows Optimize Resources

**Solution** | Task assignment and tracking have been automated and streamlined, increasing overall efficiency and maximizing resources.

**Impact** | 25% improvement in chemist productivity

- Efficient use of chemist hours allows the company to stay lean.
- Automated workflows free up time for innovation and customer service.

## 4. Real-time Inventory Management and Cost Optimization

**Solution** | Accurate, real-time tracking of raw materials with automated alerts for reordering.

**Impact** | 99.5% inventory accuracy, improved from 95%

- Accurate pricing based on real-time raw material costs.
- Reduced waste through better inventory management.
- Automated alerts prevent stockouts and overstock situations.

## 5. Enhanced Quality Control and Regulatory Compliance

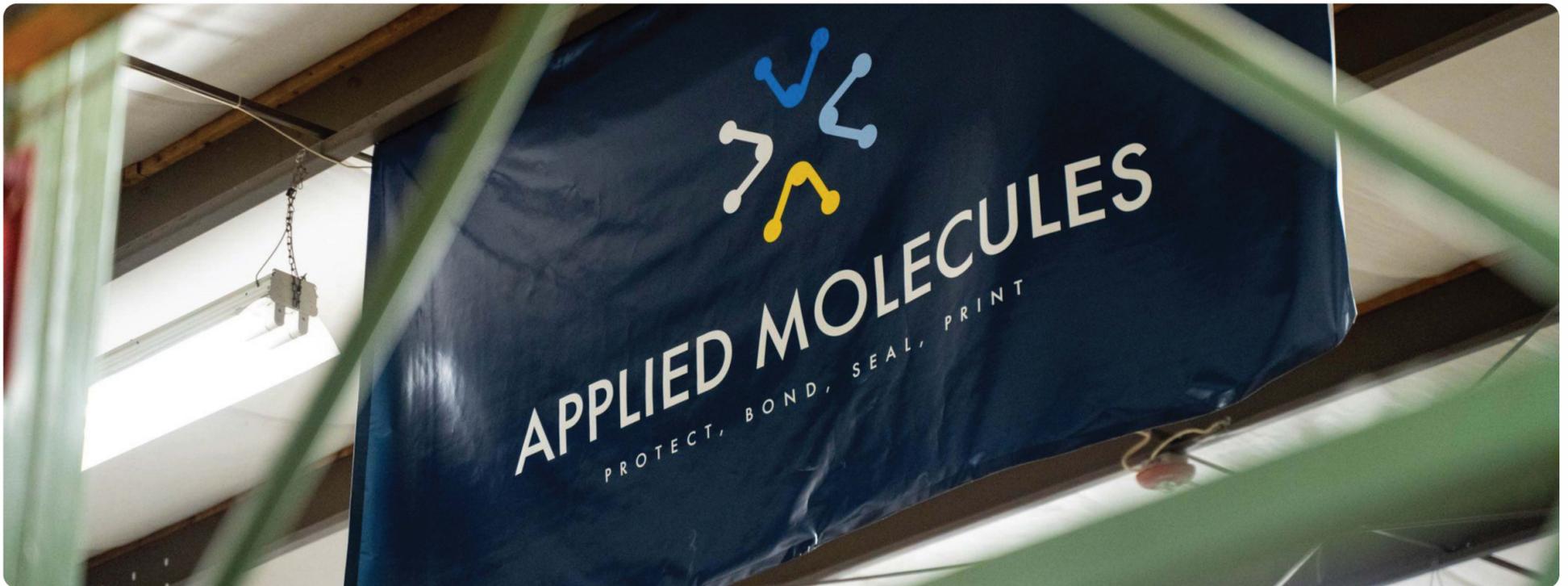
**Solution** | Standardized QC templates and lot traceability ensure consistent product quality.

**Impact** | 10 minutes to generate an SDS, improved from 24 hours

- Accurate pricing based on real-time raw material costs.
- Reduced waste through better inventory management.
- Automated alerts prevent stockouts and overstock situations.



## Conclusion: Empowering Growth and Customer Satisfaction



**Zach Leszczynski**  
Assistant Plant Manager

Albert will be a big benefit as we scale. I don't have to be in three places at once anymore.

By implementing Albert's end-to-end R&D platform, Applied Molecules has transformed from a promising startup into a formidable competitor in the materials science industry. This digital transformation has allowed them to punch well above their weight, delivering value to their customers in ways typically associated with much larger organizations.

For Applied Molecules' customers, the benefits are clear and tangible:

- 1. Faster Time to Market** | With streamlined R&D and manufacturing processes, customers receive innovative products more quickly.
- 2. Consistent Quality** | Enhanced quality control measures ensure that customers receive reliable, high-quality products batch after batch.

**3. Responsive Service** | Centralized data management allows Applied Molecules to respond swiftly and accurately to customer inquiries and requests.

**4. Regulatory Peace of Mind** | Automated SDS generation and comprehensive lot traceability provide customers with the documentation and assurance they need for their own regulatory requirements.

**5. Competitive Pricing** | Optimized inventory management and resource allocation enable Applied Molecules to offer competitive pricing without compromising on quality.

As Applied Molecules continues to grow, Albert's scalable platform will play a crucial role in maintaining their competitive edge. The system's ability to accommodate increased data volumes, new product lines, and additional team members ensures that Applied Molecules can expand without sacrificing efficiency or innovation. By providing enterprise-grade digitalization to their agile team, Applied Molecules has positioned themselves to compete effectively with industry giants while maintaining the responsiveness and creativity of a smaller company — offering their customers the best of both worlds.