

**organic**  
TECHNOLOGIES



**SPEED TO MARKET. ACHIEVED.**

## Process Solutions to Market. Tomorrow.

It's a natural inclination – utilizing your resources to the fullest. Creating ideas and then taking them further. Refining processes for better optimization. But good intentions can only take you so far. At Organic Technologies, we turn this vision into reality – every day. In fact, this premise is so much a part of our operations we've made it central to our business model: providing efficient, expedited custom manufacturing services and processes for food, flavor and fine chemical producers.

As a dynamic, fully-capable custom processor, we apply our expertise in taking products from the research stage through process design and plant construction to finished goods, all with the advantages of a lean, flexible organization. For our clients, this means we respond quickly and with lower costs to production. It also translates into quality product that meets specs, guaranteed.

Yet, with over 25 years in the industry, we're equipped to competently and economically support the needs of Fortune 100 companies. No matter the scope of the project, our clients know that Organic Technologies will successfully meet the goals of their project.



### **Innovative**

Organic Technologies is in the business of actively investing in new ideas, hard work, and technology to accomplish truly innovative process solutions for our clients. We believe ingenious thinking can make great things possible.




### **Integrated**

Each facet of our business is integrally aligned for exceptional quality and service. With in-house turnkey construction, design, procurement, research and development, and scale-up services, we'll put your project on the fast track toward production.

### **Invaluable**

Applying innovative process solutions, we consistently create value for our customers. We've literally run thousands of distillations and reactions over our 25 year history with quick turnarounds resulting in production to stringent quality standards.



**Industries Served Include:**

- GMP Nutraceuticals
- GMP Food Ingredients
- Pharmaceutical Intermediates
- Specialty Gases & Fine Chemicals
- Flavors & Food Additives

**Specialty Process Solutions.**  
**DELIVERED.**



# IT ALL STARTS HERE



## Staying Ahead Through Innovation.

A project is only as good as the plan. A plan is no better than the expertise of the people. That's where Organic Technologies really affords clients a competitive advantage! As designers, engineers, researchers, construction and health/ safety specialists, we're expertly teamed for solving problems. That's what we do! Our experience has been built upon thousands of successful processes and products.

## Continual Optimization

Our skilled analytical department has in-house capabilities in gas chromatography (GC), mass spectrometry (MS), high-performance liquid chromatography (HPLC), Karl Fischer (KF), refractometry, spectrophotometry, and all standard wet methods of analysis. We're able to produce small quantities of highly specialized chemicals for clinical studies or research and provide licensed patented process technology. From custom analysis to pilot-scale up, Organic Technologies can report progress sooner and guide the process more efficiently through constant optimization.

## In-House Capabilities:

- ANALYTICAL METHOD DEVELOPMENT
- RESEARCH & DEVELOPMENT
- INTELLECTUAL PROPERTY
- PROJECT MANAGEMENT
- DESIGN-BUILD ENGINEERING
- PLANT SCALE-UP
- PLANT AUTOMATION & CONTROL
- PROCESS EQUIPMENT DESIGN/ FABRICATION
- ENVIRONMENTAL, HEALTH & SAFETY
- GMP QUALITY CONTROL
- RAIL/TRUCKING LOGISTICS
- PLANT COMMISSIONING/VALIDATION



**“Our innovative approach to your project starts by optimizing the process chemistry in the lab and then engineering and building the finished process with a hard-working, resourceful team of dedicated people.”**

**– Paul Wiley, Principal**

# RAPID SCALE UP

**1**

## **PILOT RESEARCH – SCALE-UP**

Not all chemical companies have the infrastructure to support pilot/scale-up operations, in turn, increasing your risk, and more importantly, affecting your bottom line. Organic Technologies has the experience and the savvy to undergo successful testing – to get it right before the project escalates towards production. After sufficient research, cost evaluation, and engineering, we’re able to enter a new venture with full confidence.

**2**

## **FABRICATION & COMMISSIONING**

Focused on efficient production, maintenance, and long-term reliability, our staff of qualified chemical, electrical, mechanical and process engineers have extensive in-plant experience. They understand the complexities and interaction of plant production and work in tandem with EH&S specialists to ensure safe, efficient and environmentally sound processes. With in-house process equipment and piping fabrication, we achieve greater control over the design of the plant throughout the construction phase.

**3**

## **START-UP & PRODUCTION**

When construction nears completion, a team of engineers and technicians double-checks the operation and control of the process from start to finish in comprehensive plant commissioning. They proceed through plant start-up in an intensive, hands-on diagnosis and rapid problem resolution mode throughout the entire start-up period. After successful startup, we’re able to consistently manage and accelerate the commercial production process with our automated control system for efficient production to your demanding food and pharmaceutical quality specifications.

# From Groundbreaking to In-Spec GMP Production, in 9 Months!

**The Challenge:** Perform custom processing of a vegetable oil stream.

**What We Did:** Quickly researched and engineered an economical, innovative processing scheme and rapidly scaled-up to construct a large-scale GMP processing facility to produce a major food ingredient. Organic Technologies managed all aspects of construction, fabrication and plant automation.

**Results:** In only 9 months, our team processed and produced in-spec product, at a fraction of the cost to develop a green-field stand-alone processing plant!



(On the Left)

◀ **David B. Wiley,**  
President, Principal

(On the Right)

◀ **Paul V. Wiley,**  
Vice President of Engineering,  
Principal

Part of getting the end product right involves using the best and newest technology for plant automation. With Emerson Process Management's DeltaV®, a comprehensive, state-of-the-art plant automation and control system, we're able to:

- Ensure optimum process quality and efficiency
- Maximize process up-time and reliability
- Enhance process data collection and monitoring

## ADVANCED TECHNOLOGY

Our in-house control engineers have the expertise to program an entire plant automation system from the ground up. Throughout the construction and operation of the plant, a capable team of instrumentation technicians continually monitor instrument calibration and optimize the monitoring and control of the process equipment. These in-house capabilities translate directly into a lower-cost, more responsive process solution for your project.

In short, we're equipped with the best technology to rapidly scale-up to commercial production and consistently manufacture to GMP standards!





# FOR SUPERIOR SOLUTIONS

**“Our use of the newest technology in plant automation gives us the ability to respond quickly to changes and ensure consistent production to GMP standards. This translates directly to added value for our customers.”**

**– David Wiley, President**

# The Fast-Track Toward Progressive Solutions.

- Fine distillation, whether high vacuum and high pressure distillation of gases and liquids
- Custom solid-liquid and liquid-liquid separations using filtration, centrifugation, and extraction technology.
- Organic synthesis for high-purity pharmaceutical intermediates and nutraceutical products
- Production to GMP quality standards
- In-house design/build process and construction engineering

## Maintaining Strong Relationships

Most people hear about us through word of mouth or through a successful project. That's because Organic Technologies works hard to bring value to our clients, and as the adage goes, 'good news travels fast.' For what could be a drawn-out, tedious process, to our customers becomes a dynamic working relationship with the benefits of a quality product, accurate communication and fast response.



# Fast, Intelligent Solutions. Applied Science.

Organic Technologies is in the business of developing innovative process solutions to service customers worldwide. As the trend toward natural solutions grows, we've remained committed to the effort, first as forerunners in research, now as important contributors to the health and nutrition markets. From flavors and fragrances to health and nutrition, enhancing the world through science has been our focus since 1981.



At Organic Technologies, we're organized for fast production response. Our 70,000 sq. ft. manufacturing facility, designed to accommodate rapid reconfiguration and flexibility, is located in the heart of the Midwest for better accessibility to our clients anywhere in the United States. Whether our clients need a simple distillation or a total process design solution, we're able to meet and exceed their expectations for quality, service and turnaround time!

**Coshocton, Ohio**



Centrally located in the Midwest, to serve you better!



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**TECHNOLOGIES**

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