



# Industrial Food & Beverage

## OUR FOOD & BEVERAGE EXPERIENCE

Our team starts with an intentional focus on food safety, sanitary design, and good manufacturing practices, integrated with innovative and sustainable design. We have expertise across many food and beverage markets, and our capabilities include facility planning and design, process and packaging systems, and warehousing and cold storage.

Our fully integrated in-house team of architects and engineers work seamlessly on projects from master planning, feasibility, conceptual design, detailed design, permitting, construction administration, commissioning, qualification, and verification. Working as a cohesive group allows us to accommodate compressed schedules while reducing the potential for scope gaps and integrating our experience and food & beverage facility best practices. Because we have both Building and Process engineering in-house, we understand how the building systems need to integrate with the process systems.

## SUSTAINABILITY

We believe sustainable design is essential in today's world. It can defy expectations and propel our communities into the future. Informed by data and grounded in the market, we design to support human resilience, health, and wellness while delivering value through life-cycle cost analysis and energy and carbon use reduction.

## SUPPORTING YOUR VISION

Stantec unites approximately 28,000 employees working in 400 locations across six continents. Since 1954, our local strength, knowledge, and relationships, coupled with our world-class expertise, have allowed us to go anywhere to meet our clients' needs in more creative and personalized ways. We look forward to connecting with you.



# HIGHLIGHTED SERVICES

## ARCHITECTURE

- Code/life safety review
- Functional programming and planning
- Interior design
- Lab planning/design
- Master planning
- Workplace design and strategy

## ASSET MANAGEMENT

- Condition assessment
- Extreme weather and climate change assessment and planning
- Financial gap analysis and funding options
- Lifecycle cost-benefit-risk analysis

## AUTOMATION, INSTRUMENTATION, AND CONTROLS

- Control systems architecture and design
- Control systems integration
- PLC/PAC, HMI, and MES development
- Process and packaging line automation

## COMPLEMENTARY SUPPORT SERVICES

- Arc flash hazard analysis
- Carbon capture
- Energy analysis
- Permitting
- Power quality analysis
- Production optimization

## CONSTRUCTION MANAGEMENT

- Construction and safety management
- Procurement support
- Project controls

## CONVEYING AND PACKAGING SYSTEMS

## ENVIRONMENTAL AND GEOTECHNICAL SERVICES

- Assessments
- Environmental approvals/permits, planning, and compliance
- Environmental Site Assessment (ESA) Phase I and II
- Inspection and monitoring

## FACILITY DESIGN & BUILDINGS ENGINEERING

- 3D Laser scanning
- Buildings engineering
- Central utility plans
- Civil and structural engineering
- Code compliance review
- Feasibility and planning
- Greenfield, brownfield, expansions, conversions
- Fire protection engineering
- Hazardous area classifications

- Industrial refrigeration and cold storage
- Industrial ventilation
- Mechanical, electrical, and plumbing engineering
- Sanitary design for HACCP, GMP, and GFSI
- Utility design and engineering
- Warehousing and distribution

## HEALTH AND SAFETY: INDUSTRIAL RISKS

- Human health considerations (risk assessment, due diligence, consumer safety, regulatory compliance)
- Occupational health & safety
- Product stewardship
- Process Safety Management (PSM)/ Risk Management Plan (RMP) program development and auditing
- Toxicology and food safety assessments

## PROCESS ENGINEERING

- Batching systems
- CIP/SIP
- Filtration
- Mass and Energy Balances
- PFD and P&ID Development
- Process design
- Process systems
- Sanitary piping

## PROCESS HAZARD ANALYSIS (PHA) FACILITATION

- Air monitoring and exposure assessments
- Dust Hazard Analysis
- HAZOP and HAZID Analysis
- Noise surveys and control

## PROJECT AND PROGRAM MANAGEMENT

- Capital expenditure request development and planning
- Contract and construction administration
- Cost estimating
- Project controls
- Project oversight and monitoring
- Risk planning
- Schedule development
- Value engineering and constructability review

## PROJECT DEVELOPMENT

- Application preparation
- Grant administration
- Research and strategy

## SITE IDENTIFICATION, ASSESSMENT, AND SELECTION

- Site infrastructure development
- Site plan approvals/zoning

## STARTUP & COMMISSIONING

- Building commissioning
- Commissioning, Qualification, and Validation (CQV)
- Equipment and Installation Commissioning Support
- Equipment Failure and Downtime Troubleshooting
- Equipment FAT Support
- Performance testing

## SUSTAINABILITY/ESG SERVICES

- Capture and re-use of waste heat
- Centralized energy, automation and control
- Climate solutions/net zero/ decarbonization strategy
- Cogeneration (biogas digestion/ renewable natural gas; food waste to energy)
- Combined heat and power (CHP)
- Efficiency upgrades and rebate programs
- Energy audits/reduction
- ESG advisory services
- Greenhouse gas (GHG)/Carbon impact assessment
- Waste audits
- Zero emission vehicle fleet planning and infrastructure development

## WATER-CAPTURE, USE, REUSE, AND DISCHARGE

- Water resource planning and management
- Pre-treatment and reduction
- Reclamation and reuse
- Water and wastewater treatment and storage
- Water usage and wastewater reduction assessments
- Discharge and land application permitting
- Biosolids management
- Water quality monitoring

## CONTACT US



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