



Better food, Better planet.

Helping build a more sustainable food system by helping scale-up tomorrow's technologies today.

Biotech companies are working to solve tomorrow's problems, today. High-quality plant and cellular alternative proteins have the potential for a significant transformative impact on both people and the planet. Not only can alternative proteins play a role in building a more sustainable food system, they can also be incorporated into a variety of other manufactured products.

Black & Veatch's NextGen Ag team is the ideal partner to de-risk and bridge the gap between science, research and development, engineering and manufacturing. Our expertise rests in optimizing existing facilities and designing and building new ones.

We're the ideal partner to help you early in your journey or wherever you are. Our proven approach addresses your specific needs and leverages tools like a Techno-Economic-Analysis. This leads to a successful and systematic scaling-up of your operations and bringing emerging and new-to-world food, beverage and agricultural technologies to life. From process development to engineering through the design and construction of a pilot scale or commercial manufacturing facility. We focus on de-risking these business operations improvement efforts, so you can stay focused on what you do best.



Services Offered

Black & Veatch NextGen Ag is your trusted partner, from the initial planning stages through start-up and beyond. We have the flexibility to meet your needs through a range of service offerings.

Project Financing

- Financial modeling and project development
- Independent engineering evaluations
- Turnkey asset development

Planning

- Project definition and master planning
- Bio-Process Techno – Economic – Analysis studies
- Feasibility studies
- Site selection & condition assessment

Sustainability Solutions

- Sustainability assessments and roadmap including energy, water, material use and operational efficiency analysis
- Leadership in Energy and Environmental Design (LEED) certification

Safety Solutions

- Plant and Employee safety consulting
- Food safety and quality control consulting
- Track and trace

Design and Engineering

- First of a Kind Product (FOAK) Scale-up & innovative technology implementation
- Complete facility design, engineering and municipality integration
- Project, program, and risk management

Packaging Systems

- Material handling systems
- Integrated packaging systems
- Primary and secondary packaging

Process Design

- Fermentation/bioprocess scale-up
- Pilot plant scale-up
- Process design and engineering with emphasis on hygienic/sanitary design

Controls and Automation

- Automation Systems Programming and Integration (PLC and HMI/SCADA Systems)
- Data Collection & Downtime/OEE Analysis; Enterprise Systems Integration (MES/ERP)
- Network design, security, and remote access

Construction

- Sub-contractor procurement
- Construction and safety management
- Project controls

Startup and Commissioning

- Vertical startup
- Commissioning, Qualification, and Verification (CQV)
- Operator and maintenance training

NextGenAg

For more information contact us at bv.com/nextgenag.