



What is BIO?

The Biotechnology Innovation Organization (BIO) is the world's largest trade association representing biotechnology companies, academic institutions, state biotechnology centers and related organizations across the United States and in more than 30 other nations. BIO is the premier biotech trade association nationally and globally. BIO members are involved in the research and development of innovative healthcare, agricultural, industrial and environmental biotechnology products that are transforming how we heal, fuel and feed the world. To advocate for our industry, BIO is organized into four different sections to best represent our members and their goals. BIO will celebrate its 25th anniversary in 2018.

The Biotechnology Innovation Organization Industrial and Environmental Section

BIO is the world's strongest advocate for the transformative and sustainable innovations in industrial biotechnology and biosciences championed by the Industrial and Environmental Section (IES) staff and members. IES members include Fortune 500 companies, as well as emerging companies because the support we provide helps them grow their businesses and stay abreast of the rapid advances occurring in industrial biotechnology. We work hard to ensure that industrial biotech, renewable chemicals, advanced and cellulosic biofuels, green chemistry and biobased products have the widest possible acceptance and use while helping to open doors for business development and investment opportunities globally.

BIO's Industrial and Environmental Section was formed in 1998 and brings together companies with an interest in utilizing industrial biotechnology to develop sustainable sources of energy and materials, innovative food, health and personal care ingredients, biobased products, renewable chemicals and improved manufacturing processes. IES consists of more than 60 leading industrial biotech companies or companies that are beginning to integrate biotechnology into their business model in some meaningful way (please see page 5 for a list of our member companies).

Below is a summary of many of the resources, structure, and composition of the Industrial and Environmental Section. To learn more about the BIO Industrial and Environmental Section please contact [Brent Erickson](#).

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Policy and Advocacy

We promote the use of industrial enzymes, conversion of biomass to energy and renewable chemicals, and innovative clean up technologies. We work closely with the U.S. Congress, federal agencies, state governments, White House Office of Science and Technology Policy, non-government organizations, and international organizations to develop policies and support initiatives that encourage investment in the development of technologies that make our lives and environment cleaner, safer and healthier. The IES team focuses on consensus building between members and stakeholders to advocate policies with one unified voice.

BIO's IES team includes global experts on biotechnology policy and the uses of biotechnology in biomanufacturing, the chemical industry and bioenergy production. We provide services in three general areas: policy and advocacy, public relations and communications, and technical and business development conferences. These collectively build the biobased economy.

Communications Team

BIO's Communications Department provides an overarching framework for advocacy and media relations work by BIO on behalf of its members. It provides a message framework for our members to speak with a unified voice as an industry that enables our members to work cooperatively on shared media opportunities.

The BIO World Congress on Industrial Biotechnology

The BIO World Congress on Industrial Biotechnology was founded fifteen years ago and is now the largest international industrial biotechnology event bringing together business, academia and government to share knowledge, build bridges and to develop new value chains that integrate agriculture, chemistry and biotechnology. The BIO World Congress hosts unique business partnering functions through the BIO One-on-One Partnering™ System, which is considered the hub where initiations of new business relationships are discussed, partnerships are formed, and transformational deals are sealed. High level plenary sessions and breakout programming is designed to gain a deeper understanding of the critical issues facing the industry. Lastly, the conference organizes the GreenTech Startup Stadium, a forum for entrepreneurs, innovators, investors and financiers to discuss novel technologies. The [2019 BIO World Congress on Industrial Biotechnology](#) will be held July 8-11, 2019 in Des Moines, Iowa.

Cost Savings Program and Business Discounts

BIO Business Solutions® is the largest cost savings purchasing program for the biotech industry operated by BIO. Companies of all sizes save substantial money each year through its group savings program. BIO Business Solutions® offer members the opportunity to save on items they need to run a successful biotechnology enterprise - from lab products, business insurance, office supplies, shipping needs, and more.

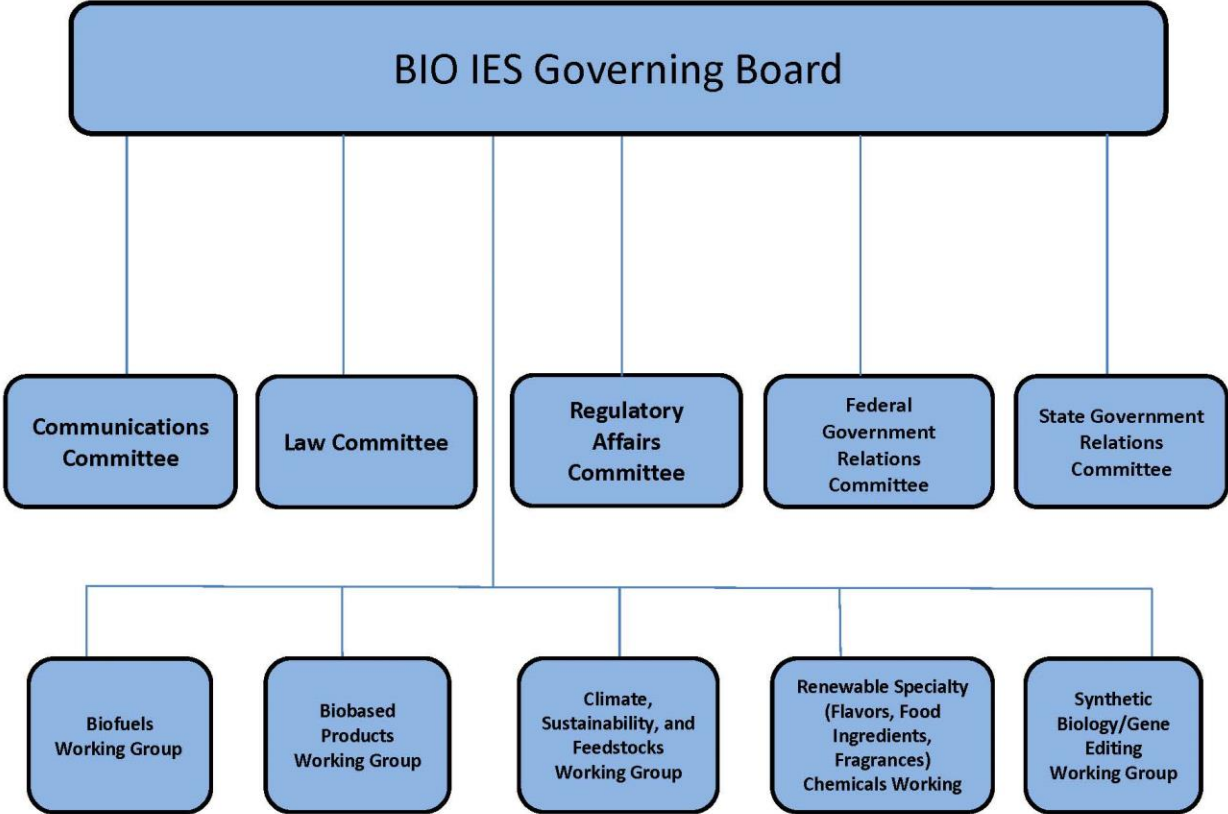
Participating Programs: Illumia • UPS • American Laboratory Trading (ALT) • BioSpace • VWR International • Chubb • Office Depot • Business Wire • Aon Risk Services • UniFirst • UniClean • Clean Harbors • ShareVault • Airgas • Humboldt • Nikon Instruments

BIO Member Benefits

BIO member benefits are designed to help our members achieve their business objectives. As a member of the IES your company will enjoy:

- On call policy and advocacy expertise
- Proactive advocacy at the international, national and state levels
- On call communications and public relations expertise
- Business, policy and legislative intelligence
- Discounts to world class conferences
- Exposure for your company and your brand
- Identification with a positive industry sector
- BIO Business Solutions®
- Membership in an exclusive club of innovative companies

BIO IES Committee and Working Group Structure



BIO Senior Staff

Brent Erickson, Executive Vice President, Industrial and Environmental Section

Brent Erickson is the Executive Vice President in charge of the Industrial and Environmental Section at the Biotechnology Innovation Organization (BIO). Mr. Erickson has led the Industrial and Environmental Section at BIO for over fifteen years and has significant policy and advocacy experience. Prior to coming to BIO he was at the American Petroleum Institute and the United States Senate.

Rina Singh, PhD., Managing Director, Industrial and Environmental Section

Biobased Products Working Group

Deals with developing policy initiatives to advance the biobased products industry.

Renewable Specialty (Flavors, Food Ingredients, Fragrances) Chemicals Working Group

Improve acceptance of and enhance the use of biotechnology and bio-based processes in pharmaceutical intermediates, fine chemicals, food additives, flavors, fragrances, personal care and nanotechnology.

Synthetic Biology and Gene Editing Working Group

The Synthetic Biology and Gene Editing working group develops and implements strategies to highlight the significant contributions of Synthetic Biology and Gene Editing to the industry and society. Current priorities are to: 1) Monitor and participate in public policy decisions affecting synthetic biology and gene editing and 2) Enhance communication with, and educate, policy makers and the public to ensure the continued growth and success of the industry.

Stephanie Batchelor, Director, State and International Policy, Industrial and Environmental Section

Climate, Sustainability, and Feedstocks Working Group

Guides engagement with industry sustainability certification efforts and development of policy options for climate legislation to enhance the uptake of all forms of industrial biotechnology.

State Government Relations Committee

For lobbyists and those involved in state government affairs for industrial biotechnology products and processes.

Sustainable Supply Chain Task Force

To address the sustainable feedstock supply chain and lack of consensus on which feedstocks are perceived as acceptable by consumer packaged goods companies and retailers for use in the production of bioplastics and biochemicals. This task force reports to the Climate, Sustainability, and Feedstocks Working Group.

Erick Lutt, Director, Biofuels, Industrial and Environmental Section

Biofuels Working Group

Develops and supports policy initiatives to help grow the market for advanced and cellulosic biofuels and provide policy certainty to spur investment in the sector.

Federal Government Relations Committee

For lobbyists and those involved in government affairs for IES member companies. Advocates and achieves BIO Industrial and Environmental Section's federal policy priorities.

Kate Shenk, Manager, Regulatory Affairs, Industrial and Environmental Section

Regulatory Affairs Committee

To address the implementation of several regulations which will impact our members. The Committee's current top three policy issues are: Toxic Substances Control Act (TSCA), bioengineered food disclosure legislation and regulations, and the EPA regulations affecting algae production systems.

Connor McKoy, Manager, Communications

Communications Committee

For those involved in all aspects of press and communications work dealing with industrial biotechnology.

Industrial and Environmental Section Member Companies

As of October 2018

Aequor, Inc.	Edeniq Inc.	Novozymes
Agrisoma Biosciences, Inc.	Elevance Renewable Sciences, Inc.	Nucelis, LLC
Agrivida, Inc.	E.M. Sergeant Pulp & Chemical Co., Inc.	Phytonix Corporation
Amyris, Inc.	Enevolv, Inc.	Pivot Bio
Anellotech, Inc.	Epygen Labs FZ, LLC	POET, LLC
Arzeda Corporation	Evolve	POET-DSM Advanced Biofuels, LLC
Avantium	Genomatica, Inc.	Praj Matrix - The Innovation Center
BASF Enzymes, LLC	Gevo	Primordial Genetics Inc.
BioBlend Renewable Resources, LLC	Green Biologics	ProteoNic BV
BioFiber Solutions International, Inc.	ICM, Inc.	Renmatix
Biomere	Industrial Microbes	Reverdia
Blue Marble Biomaterials	Intrexon Corporation	Spruce Capital Partners
Byogy Renewables Inc.	Itaconix Corporation	Steeper Energy
Calysta	KnipBio	Syngenta
Cargill, Inc.	LanzaTech	Syngulon
ChemDiv, Inc.	Lumen Biosciences	Synthetic Genomics, Inc.
Danimer Scientific	Manus Biosynthesis	Treyls, Inc.
DEINOVE	Modern Meadow, Inc.	Twist Bioscience
DMC Biotechnologies, Inc.	Modular Genetics, Inc.	Velocys
Domtar	Monsanto Company	VertuBio
DSM, NV	National Corn-to-Ethanol Research Center	Vestaron Corporation
DuPont Industrial Biosciences	Nebraska Ethanol Board	Virent
Dyadic International, Inc.	NouriTech	Xylome Corporation
Earth Energy Renewables, LLC		Zymergen

BIO Membership Value Summary

- Access to policy committees and working groups
 - The most effective avenue to influence BIO's policy agenda
 - Keep abreast of important policy, regulatory, and political developments critical to your business
- Discounts at BIO conferences & events
 - Member discounts on registration, presentation, and exhibition fees
- Savings via BIO Business Solutions
 - The largest cost-savings program for the life sciences industry
 - Discounts up to 75% on an array of products and services from over a dozen popular suppliers
- Free subscription to BIO SmartBrief
- Access to BIotechNOW, timely newsletters, and other publications
- Company listing/website link in online Member Directory