

Exponent®
Engineering & Scientific Consulting

Jamal Koledoye

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Professional Profile

Jamal Koledoye is a senior scientist in Exponent's Chemical Regulation & Food Safety practice with experience in pesticide regulatory compliance, biopesticides, microbial biotechnology, and agricultural product stewardship. He advises agrochemical companies, biotechnology firms, and product manufacturers on FIFRA compliance, USDA APHIS permitting, TSCA MCAN strategy, adjuvant stewardship, and state pesticide registration.

FIFRA Regulatory Strategy and Compliance

Mr. Koledoye advises clients on regulatory strategy and compliance for pesticide and biopesticide products regulated under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). His work spans new active ingredient registrations, label compliance, product amendments, and responses to EPA data call-ins and jurisdictional inquiries, including 10-day letters and M009 (EPA Regulatory Jurisdiction) determinations. He has supported clients in navigating EPA's Office of Pesticide Programs (OPP) review processes for both conventional and microbial pesticide products, helping manufacturers achieve and maintain federal registration while managing regulatory risk.

Mr. Koledoye also has experience with international pesticide registration, including projects involving compilation of full registration dossiers for markets outside the U.S., encompassing physicochemical data, human and environmental hazard assessments, residue data, efficacy testing, and toxicology assessment reports.

USDA APHIS Permitting

Mr. Koledoye supports projects for clients seeking to import, transport, or conduct field releases of biological and agricultural materials regulated by the USDA Animal and Plant Health Inspection Service (APHIS). He prepares and manages PPQ 526 permit applications for the importation and interstate movement of biological articles, including organisms subject to plant pest risk assessment. His work also includes consideration of phylogenetic analysis and risk characterization of regulated biological materials to support permit justifications and agency review.

TSCA MCAN Biotechnology Strategy

Mr. Koledoye supports projects for clients on regulatory strategy for microorganisms and biotechnology products subject to the Toxic Substances Control Act (TSCA) Microbial Commercial Activity Notice (MCAN) framework. He helps manufacturers of microbial products — including those developed through recombinant DNA techniques and applied biotechnology — understand their notification obligations, prepare submissions, and position their products for EPA review. His background in microbial

biotechnology and RNAi technologies informs his participation on project teams to assess the regulatory classification and risk profile of novel biological products at the intersection of TSCA and FIFRA.

Adjuvant Product Stewardship

Mr. Koledoye provides regulatory strategy and product stewardship support for adjuvant products used in agricultural applications. Adjuvants — including surfactants, spreader-stickers, and tank-mix additives — occupy a complex regulatory space that intersects FIFRA, TSCA, and state-level requirements. He helps clients assess whether their adjuvant products require federal or state registration, develop compliant labeling, and navigate the patchwork of state-specific adjuvant registration programs that vary significantly across jurisdictions.

State Pesticide Registration

Mr. Koledoye manages state-level pesticide registration and registration renewal submissions across U.S. jurisdictions. He is experienced with the procedural and substantive requirements of state lead agencies operating under FIFRA Section 24(c) special local need registrations and standard state registration programs. His work includes preparing and submitting state registration packages, tracking renewal deadlines, and ensuring ongoing label and data compliance with state-specific requirements that may differ from federal EPA standards.

Academic Credentials & Professional Honors

M.S., Microbial Biotechnology, North Carolina State University, 2021

B.S., Applied Biotechnology, University of Georgia, 2019

Prior Experience

Regulatory Specialist, TSG Consulting, June 2021 – July 2022

Project Experience

FIFRA Regulatory Strategy

Mr. Koledoye has supported clients across multiple FIFRA regulatory matters, including EPA jurisdictional determinations, new active ingredient registrations, and international pesticide dossier submissions. Representative engagements include:

- Responded to a 10-day EPA data request on behalf of a client whose microbial product was under jurisdictional review, conducting targeted literature searches to demonstrate the product's phosphate-solubilizing mechanism and distinguish its mode of action from regulated plant growth regulator functions.
- Drafted four M009 (EPA Regulatory Jurisdiction) letters for a client's microbial product line, carefully framing nutrient-availability claims to avoid triggering plant growth regulator classification; the outcome was an EPA determination of no jurisdiction over any of the products in the line.
- Directed EPA registration support for pesticide products by evaluating OCSPP product chemistry and acute toxicity data requirements, coordinating laboratory study scopes, and resolving technical questions needed to advance product registration.

- Managed a FIFRA deficiency-response strategy for an EPA-regulated pesticide product by reviewing efficacy requirements, supporting a response to an EPA 75-day deficiency letter, and tracking the Agency's subsequent efficacy review, including follow-up with EPA regarding review status and additional information needs.

USDA APHIS Permitting

Mr. Koledoye has managed APHIS permitting engagements for clients seeking to import and transport regulated biological materials into and within the U.S.

- Managed and submitted multiple APHIS PPQ 526 permit applications for the importation and interstate transport of biological articles, conducting phylogenetic analysis and risk characterization of each regulated organism to support agency review and permit justification.
- Prepared and managed a USDA APHIS Veterinary Services permit renewal for regulated biological/agricultural material, applying permitting expertise to evaluate updated manufacturing-process parameters and develop the renewal application for submission through the APHIS permitting process.
- Developed regulatory strategy for USDA APHIS PPQ 526 permitting of an organism-containing soil amendment/inoculant used in blind field efficacy trials, engaging APHIS directly to clarify permit implications of alternative product identifiers and interstate shipment for field research.

TSCA MCAN Biotechnology Strategy

Mr. Koledoye has applied his microbial biotechnology background to regulatory assessments at the intersection of TSCA and FIFRA, including evaluations of novel recombinant microorganisms.

- Led TSCA Microbial Commercial Activity Notice (MCAN) support for a biotechnology product involving a recombinant microorganism, applying regulatory and technical review skills to assess submission information, identify information needs, and advance the MCAN toward EPA review.
- Developed and applied a TSCA MCAN regulatory framework for microorganisms, using 40 CFR Part 725 requirements to support MCAN strategy, build technical information requests/questionnaires, and establish MCAN support as part of broader TSCA regulatory services.

State Pesticide Registration

Mr. Koledoye has supported clients with state-level pesticide registration and renewal submissions across U.S. jurisdictions, supporting compliance with state lead agency requirements that may differ from federal EPA standards.

- Completed state registration and registration renewal submissions for pesticide and pesticide device products across multiple U.S. states, managing submission timelines, label compliance requirements, and state-specific data obligations on behalf of product registrants.