5/11/2025

Dr. Allison Petersen
Chair, Grant Review Committee
USDA Office of Sustainable Agriculture Development (OSAD)
1400 Independence Ave SW
Mail Stop 1020
Washington, D.C. 20250

Dear Dr. Petersen,

On behalf of GreenField AgriCorp, it is our privilege to submit this proposal for AgriGreen 360: Sustainable Farming for the Future, in direct response to the United States Department of Agriculture's Request for Proposals No. 2025-SFAG-012, "Advancing Regenerative Agriculture and Smart Farming Technologies for Climate-Resilient Food Systems." This proposal represents our unwavering commitment to advancing the national sustainability objectives championed by the USDA Office of Sustainable Agriculture Development (OSAD).

For over four decades, GreenField AgriCorp has been at the forefront of agricultural innovation and environmental stewardship. We have built our legacy by integrating advanced technologies and regenerative farming practices across more than 100,000 acres worldwide. AgriGreen 360 is our most ambitious project to date—one that unites precision agriculture, data-driven management, and community-centered engagement to deliver transformative impacts in soil health, water conservation, carbon reduction, and rural economic vitality. Our initiative directly aligns with the priorities ou
impact, broad scalability, ar

We believe these strengths
of the SFAG program and h
details a five-year, phased p
transparent reporting, ensur
All pricing and project sche
For questions or further inf
robin@greenfieldagricorp.c

We respectfully invite the Grant Review Committee to review the attached proposal and grant us the opportunity to advance American agriculture's role in building a climate-resilient, economically vibrant, and environmentally sustainable food system. We are confident that AgriGreen 360 will not only meet but exceed your expectations for innovation, impact, and replicability. We look forward to the opportunity to discuss our proposal with you in more detail and will follow up to schedule a meeting the week of July 15, 2025.

Sincerely,

Camila Avarez
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Business Plan

AgriGreen 360 Funding

This is an example of a document assembled by the Proposal Pack Wizard software you would start editing for your proposal if you created your first draft using the AI Writer.

See the AI Writer features

Prepared for: Allison Petersen
Chair, Grant Review Committee

Prepared by: Camila Avarez
CFO

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Executive Summary

GreenField AgriCorp respectfully submits this proposal for AgriGreen 360: Sustainable Farming for the Future to the USDA Office of Sustainable Agriculture Development (OSAD) in response to RFP No. 2025-SFAG-012. This executive summary outlines the core objectives, opportunities, and solutions of our initiative, designed to advance the integration of regenerative agriculture and smart farming technologies. AgriGreen 360 is poised to become a transformative model for climate-resilient food systems, offering measurable environmental, economic, and social benefits that align directly with national sustainability priorities and the USDA's vision for the future of American agriculture.

The Objective…

The central purpose of AgriGreen 360 is to revolutionize and accelerate the shift to sustainable, technologically advanced farming within GreenField AgriCorp's extensive operations. Our initiative addresses the urgent need to mitigate the negative impacts of conventional agriculture—soil degradation, excessive water usage, greenhouse gas emissions, and biodiversity loss—by deploying practices and technologies that regenerate the land, optimize resource use, and build economic resilience for rural communities.

- **Need #1:** Reverse soil degradation and restore long-term fertility through large-scale adoption of regenerative agriculture. This includes integrating composting, reduced tillage, and diversified crop rotations, targeting fields that have suffered from decades of intensive monoculture and chemical input dependency.

  Underscoring this need is the alarming decline in soil organic matter and crop resilience, which threatens both yield stability and food security. By prioritizing regenerative techniques, AgriGreen 360 aims to not only halt but actively reverse this downward trend, in direct alignment with USDA OSAD's soil health objectives.

- **Need #2:** Significantly reduce agricultural water consumption and waste through precision irrigation, real-time soil moisture monitoring, and circular water recycling systems.

  With agriculture accounting for 80% of U.S. freshwater withdrawals and many regions facing chronic water scarcity, optimizing irrigation and water reuse has become a non-negotiable imperative. Our solution directly targets the inefficiencies of legacy irrigation systems, leveraging data-driven controls and smart infrastructure to ensure every drop is maximized.

- **Need #3:** Achieve federally mandated reductions in carbon emissions and chemical input use by integrating AI-driven farm management, advanced analytics, and smart technology platforms across all U.S. operations.

  Meeting USDA and global climate commitments requires a rapid pivot from traditional, input-intensive methods to scalable, technology-enabled solutions that drive measurable impact. AgriGreen 360 addresses this by embedding digital tools that inform every farm management decision, enabling real-time adaptation, and dramatic reductions in carbon footprint and chemical dependency.

The Opportunity…

AgriGreen 360 is uniquely positioned to leverage GreenField AgriCorp's scale, reputation, and experience to set a new benchmark for sustainable agriculture. Our initiative responds directly to the core goals outlined in the USDA's Sustainable Farming Advancement Grants (SFAG) program, ensuring that federal investment delivers outsized returns for agriculture, the environment, and rural communities.

- **Goal #1:** Demonstrate and document the successful integration of regenerative practices and precision agriculture technologies at commercial scale, yielding measurable reductions in carbon emissions, water use, and synthetic inputs.

  By piloting and scaling these innovations across over 100,000 acres, GreenField AgriCorp will deliver not only immediate on-farm benefits but also a replicable template for industry-wide transformation. Our partnership with leading research institutions and technology providers ensures all results are independently validated and reported in accordance with federal standards.

- **Goal #2:** Create a scalable platform for workforce development, community engagement, and rural economic revitalization, centered on sustainable agriculture and green technology.

  Through strategic partnerships with local communities, academic institutions, and workforce training organizations, AgriGreen 360 will provide education, technical training, and new employment opportunities for underserved populations—ensuring that the benefits of innovation extend beyond our own operations.

- **Goal #3:** Position GreenField AgriCorp as a replicable model for national and global adoption, maximizing the return on federal investment and contributing to the USDA's Climate-Smart Agriculture and UN Sustainable Development Goals.

  Our comprehensive approach and transparent reporting will allow policymakers, producers, and industry stakeholders to adapt proven best practices, amplifying the environmental and economic impact far beyond the initial project footprint.

The Solution…

GreenField AgriCorp recommends a phased, data-driven transformation of our farming operations through the AgriGreen 360 platform. This solution is designed not only to meet but exceed the ambitious goals set forth by the USDA OSAD and the SFAG program.

- **Recommendation #1:** Deploy regenerative agriculture practices—including cover cropping, composting, reduced tillage, and crop diversity—across all pilot and production farms, with a target of restoring soil health on 90% of U.S. acreage by Year 4.

  Our solution prioritizes techniques with proven efficacy in enhancing soil organic carbon, water retention, and fertility while reducing input costs and improving yield stability. Continuous monitoring, third-party audits, and adaptive management will ensure each intervention meets measurable benchmarks.

- **Recommendation #2:** Integrate precision technology—AI-based crop monitoring, IoT-enabled soil sensors, and automated irrigation—across 80% of our farm network, supported by robust data analytics and decision-support platforms.

  This integration will enable real-time optimization of planting, irrigation, and pest management, directly reducing water consumption by 40% and chemical input usage by up to 30%. Advanced analytics will inform continuous improvement and transparent reporting to both USDA OSAD and external stakeholders.

- **Recommendation #3:** Develop and implement a comprehensive stakeholder engagement plan, including educational outreach, workforce development, and community collaboration, ensuring inclusive access to project benefits and knowledge transfer.

  By providing training, demonstration sites, and open-access resources, GreenField AgriCorp will empower both internal teams and local producers to adopt sustainable practices—laying the groundwork for enduring, community-wide transformation.

Summary

AgriGreen 360: Sustainable Farming for the Future represents an ambitious, actionable, and fully scalable response to the urgent challenges facing U.S. agriculture. GreenField AgriCorp is uniquely qualified—by virtue of our scale, expertise, and commitment to innovation—to serve as a national model for regenerative, technology-driven farming. Our initiative offers a clear path to restoring soil and water health, reducing carbon emissions, advancing rural prosperity, and positioning American agriculture at the forefront of global climate action.

Agriculture

Agriculture remains the foundation of global food security, rural economic vitality, and environmental stewardship. For GreenField AgriCorp, agriculture is not only our core business—it is a responsibility and commitment to innovation, sustainability, and community well-being. In the context of the AgriGreen 360: Sustainable Farming for the Future initiative, agriculture is reimagined as a dynamic, regenerative, and technology-driven pursuit, fully aligned with the USDA OSAD's vision for climate-resilient food systems and the strategic imperatives of the 2025 Sustainable Farming Advancement Grants (SFAG) program.

Overview

The agricultural sector faces unprecedented challenges and opportunities. Decades of resource-intensive practices—monoculture, overreliance on synthetic fertilizers and pesticides, and inefficient water use—have resulted in degraded soils, diminished biodiversity, and increased greenhouse gas emissions. At the same time, a rapidly changing climate, shifting market demands, and population growth have placed enormous pressure on food production systems. The stakes are high: agriculture must not only sustain yields but also regenerate natural resources, protect ecosystems, and drive rural prosperity.

GreenField AgriCorp, with over 100,000 acres of farmland across North America, South America, and Europe, is uniquely positioned to lead this transformation. Our approach to agriculture is defined by the integration of regenerative practices—such as cover cropping, crop rotation, composting, and reduced tillage—alongside advanced technologies like AI-driven crop monitoring, precision irrigation, and real-time data analytics. These strategies are not just theoretical; they have been pilot-tested, refined, and validated on our farms, demonstrating tangible improvements in yield, resource efficiency, and ecosystem health.

The AgriGreen 360 initiative builds on this foundation, aiming to scale these solutions across our global operations and beyond. By combining traditional agricultural wisdom with cutting-edge innovation, we seek to create a model for sustainable farming that is measurable, replicable, and responsive to the urgent needs of our planet and communities.

Opportunities

The current agricultural landscape presents a convergence of opportunities for large-scale, positive change. These include:

- ### Advancements in Smart Farming Technologies

  The emergence of precision agriculture tools—such as soil moisture sensors, autonomous tractors, and AI-powered decision support systems—enables unprecedented accuracy in planting, fertilization, pest management, and irrigation. For GreenField AgriCorp, the adoption of these technologies has already led to a 40% reduction in water use and double-digit gains in input efficiency. The ongoing digital transformation of agriculture offers further opportunities to optimize operations, reduce waste, and enhance the resilience of our farms against climate stressors.

This technology-driven shift also positions agriculture as a leading sector in the fight against climate change. Through real-time monitoring and adaptive management, emissions can be tracked and minimized, aligning farm operations with national and global sustainability goals.

Expansion of Regenerative and Circular Economy Practices

The growing demand for food produced with minimal environmental impact is matched by advancements in regenerative techniques—cover cropping, composting, and integrated pest management. GreenField AgriCorp's experience has shown that these practices restore soil fertility, increase biodiversity, and sequester carbon, all while maintaining or even enhancing yields.

The transition to a circular agricultural economy—where waste streams are repurposed, packaging is biodegradable, and water is recycled—creates new revenue opportunities and enhances operational resilience. By diverting 75% of operational waste from landfills and transforming byproducts into valuable soil amendments, we not only reduce costs but set a standard for sustainable production.

Issues

Despite significant progress, the agricultural sector continues to grapple with complex, interrelated challenges:

Resource Degradation and Climate Volatility

Historical reliance on intensive cultivation has left vast tracts of farmland with depleted soils, reduced organic matter, and increased susceptibility to erosion. Water scarcity, exacerbated by erratic weather and drought, threatens not only farm productivity but also the sustainability of rural communities. Climate change is intensifying these issues, demanding adaptive strategies and long-term resilience planning.

For GreenField AgriCorp, drought years in the Midwest have resulted in yield losses of up to 20% on affected fields, underscoring the urgency of investing in resilient cropping systems, advanced irrigation, and robust soil health initiatives.

Economic and Adoption Barriers

Transitioning to regenerative agriculture and smart technologies requires substantial upfront investment, technical training, and organizational change. Many producers, especially small and medium-sized farms, face knowledge gaps and uncertainty around the return on investment for these new practices. There are also risks related to market fluctuations, evolving regulatory requirements, and public acceptance of biotechnological innovation.

To overcome these barriers, GreenField AgriCorp has prioritized pilot programs, workforce development, and extensive stakeholder engagement. By providing education, demonstration plots, and transparent data on project outcomes, we aim to de-risk innovation and pave the way for broader industry adoption.

Additional Information

The AgriGreen 360 initiative exemplifies GreenField AgriCorp's holistic approach to agriculture. Our commitment to environmental, economic, and social sustainability is operationalized through:

- ### Community Engagement and Rural Development

  We invest in job creation, technical training, and educational outreach to support the next generation of farmers and agri-tech professionals. Local farming communities are active partners in our pilot programs, advisory panels, and knowledge-sharing forums, ensuring that sustainable practices are accessible and beneficial to all stakeholders.

- ### Research, Measurement, and Transparency

  GreenField AgriCorp maintains a state-of-the-art agricultural research center, partnering with universities and conservation organizations to evaluate the impacts of new practices. Rigorous data collection, independent audits, and annual sustainability reports guarantee accountability and inform continuous improvement.

- ### Alignment with Federal and Global Frameworks

  Our strategies are designed to advance the USDA's Climate-Smart Agriculture goals, align with the UN Sustainable Development Goals (SDGs), and meet the U.S. 2030 emissions reduction targets. By positioning our farms as living laboratories, we help shape the policy and best practices that will define the future of agriculture.

Summary

Agriculture stands at a decisive crossroads—one where the choices we make today will determine tomorrow's food security, environmental health, and rural prosperity. GreenField AgriCorp, through the AgriGreen 360 initiative, is answering the call for climate-smart, regenerative, and technologically advanced farming. Our experience, scale, and commitment to measurable outcomes uniquely position us to lead this transformation.

We urge the USDA OSAD Grant Review Committee and all stakeholders to support our vision for a new era of sustainable agriculture—one that delivers on both productivity and planetary stewardship. By funding AgriGreen 360, you are not only investing in GreenField AgriCorp but also helping to establish a scalable, replicable model for the entire agricultural sector. Together, we can create a food system that is resilient, profitable, and truly sustainable for generations to come.

Market Demand

Market demand, in the context of AgriGreen 360 and GreenField AgriCorp's operations, refers to the quantifiable and forecasted need for sustainably produced agricultural goods and advanced agribusiness solutions across domestic and international markets. For this proposal, market demand is rigorously defined as the current and anticipated volume of crop, produce, and bioenergy purchases—over the next five years—by buyers who explicitly require or favor regenerative, climate-smart, and traceably managed agriculture. This includes contract volumes, spot market transactions, and procurement commitments from food manufacturers, distributors, bioenergy processors, and institutional buyers.

Understanding market demand is crucial to the success of AgriGreen 360 and central to the objectives of the USDA Office of Sustainable Agriculture Development (OSAD). Robust demand underpins the economic sustainability of regenerative practices, validates the business case for technological innovation, and ensures that federal investment will yield replicable, scalable impact. Our market analysis is informed by internal sales data, industry research, and the latest trends in consumer and buyer preferences for sustainability, traceability, and climate-smart production. The following sections break down market demand across the most critical categories for GreenField AgriCorp's value chain.

Grains and Staple Crops

Grains—specifically corn, wheat, and soybeans—represent a foundational pillar of GreenField AgriCorp's business and the broader food and energy supply chains. Market demand for these crops remains robust, but the demand for sustainably and regeneratively grown grains is growing at an accelerated rate, influenced by global buyers, regulatory requirements, and consumer pressure for climate-smart sourcing.

North American Food Manufacturers and Export Markets

Over the last three years, GreenField AgriCorp has seen contract volumes for regenerative-certified grains rise by approximately 25% annually. In 2024 alone, GreenField supplied 17 million bushels of corn and 8 million bushels of wheat to domestic millers and food processors requiring proof of reduced carbon intensity and traceable farm practices.

Pricing premiums for regenerative and sustainably certified grains have averaged 8–12% above conventional market rates, with major buyers—including Cargill, General Mills, and ADM—offering multi-year procurement agreements to lock in supply and meet their own Scope 3 emissions targets.

International Food Security and Sustainability Initiatives

Demand from international buyers, particularly in the EU and Asia, has strengthened as governments introduce new sustainability labeling and procurement guidelines. In 2024-2025, GreenField AgriCorp shipped over 5 million bushels of certified low-carbon

soybeans and wheat to European processors, with forecasts indicating a 30% increase as the EU Green Deal tightens import requirements.

These global trends are expected to accelerate, with buyers increasingly favoring suppliers who can document reductions in water use, fertilizer application, and greenhouse gas emissions—core deliverables of the AgriGreen 360 model.

Vegetables and Fruits

The market for sustainably produced vegetables and fruits is rapidly expanding, driven by both direct retail consumers and large institutional purchasers such as school districts, hospital systems, and meal kit services. GreenField AgriCorp's diversified production of potatoes, tomatoes, carrots, apples, berries, and citrus fruits positions the company to capture this high-growth segment.

Retail and Direct-to-Consumer Markets

In 2024, GreenField's organic and regenerative vegetable lines generated $72 million in U.S. retail sales, with year-over-year growth of 17%. Sustainable produce offerings are consistently among the fastest-growing SKUs in major grocery chains, with consumer surveys showing that 62% of respondents are willing to pay a premium for produce labeled as environmentally friendly or climate-resilient.

The average price premium achieved for certified regenerative produce ranges from 15% (potatoes, carrots) to 22% (berries, apples) compared to conventionally grown equivalents. GreenField's vertically integrated supply chain and ability to provide third-party traceability data have enabled the company to secure shelf space with top retailers and command loyalty from eco-conscious consumers.

Institutional and Food Service Buyers

Annual sales to institutional customers—such as public schools and universities—rose to $18 million in 2024, with buyers increasingly mandating sustainability certifications as part of their procurement criteria. This institutional demand is expected to grow by 40% over the next five years, a trend fueled by public sector sustainability goals and the desire to support local, low-impact growers.

Bioenergy Crops and Renewable Feedstocks

The transition to low-carbon energy sources has produced a surge in demand for crops that serve as renewable feedstocks: sorghum, switchgrass, and canola are critical inputs for bioethanol, biodiesel, and advanced bioproducts. GreenField AgriCorp's commitment to climate-smart cultivation and traceable supply chains is highly attractive to energy sector buyers seeking to comply with federal and state renewable fuel standards.

Biofuel Processors and Energy Companies

In the last fiscal year, GreenField supplied over 350,000 tons of bioenergy crops to U.S. and international processors, with 100% of these contracts requiring sustainability documentation—such as carbon intensity scores and water use audits—now provided through AgriGreen 360's digital reporting systems.

The market price for sustainably certified bioenergy crops is 10–14% higher than for conventional feedstocks, reflecting energy buyers' need to meet both regulatory and voluntary emissions targets. Federal policy and state incentive programs, such as the Low Carbon Fuel Standard (LCFS), are projected to drive annual demand increases of at least 12% for certified crops through 2030.

Corporate Sustainability Initiatives

Major corporations, including those in aviation and ground transport, are committing to net-zero supply chains, spurring long-term contracts with bioenergy producers who can document climate-smart practices. GreenField AgriCorp has recently signed five-year agreements with two global logistics firms seeking to offset emissions through verified biofuel use—a direct outcome of our investment in regenerative, data-driven cultivation.

Premium and Specialty Markets

Beyond staple commodities, the rise of specialty and premium product lines—such as organic produce, plant-based protein ingredients, and branded climate-positive foods—is reshaping the demand landscape. These markets are characterized by discerning buyers, tight quality standards, and a willingness to invest in traceable, regenerative supply chains.

Organic and Regenerative Niche Markets

In 2024, GreenField AgriCorp's organic division sold 6,000 tons of vegetables and fruits at premiums exceeding 25% over non-organic equivalents. Demand from specialty retailers and meal kit companies has doubled over the past two years, with contracts secured through 2028.

The plant-based protein sector, meanwhile, has shown robust interest in climate-smart pea, soybean, and canola supply—driven by global consumer shifts and major food companies' sustainability pledges. GreenField's ongoing R&D into new protein crops and high-protein grain varieties is expected to open further high-value market opportunities.

- **Direct Export and Digital Traceability Channels**

  International buyers, especially in Japan, South Korea, and the Middle East, are increasingly prioritizing suppliers who can provide digital, blockchain-based traceability for every shipment. GreenField AgriCorp's investment in AI-driven monitoring and transparent digital audits positions the company as a preferred partner for these technologically advanced markets, supporting both compliance and brand differentiation.

Summary

The market demand for sustainably and regeneratively produced crops, bioenergy feedstocks, and specialty agricultural products is not only strong but rapidly increasing. This demand is propelled by evolving consumer preferences, corporate and government sustainability mandates, and the urgent need for climate-resilient food and energy systems. GreenField AgriCorp is exceptionally well-positioned to meet and expand this demand due to its scale, technological capabilities, and unwavering commitment to environmental stewardship.

AgriGreen 360 directly addresses buyer requirements—delivering measurable improvements in yield, environmental impact, and supply chain transparency. Our planned expansion into high-growth specialty and export markets, coupled with continuous innovation, will further accelerate demand and create new revenue streams. By aligning with these market forces, GreenField AgriCorp ensures that the outcomes of this project are economically viable, socially impactful, and replicable, maximizing the value of federal investment and supporting the transformation of American agriculture for generations to come.

Yield

Agricultural yield—defined as the quantity of crops produced per unit of land—is the central metric for evaluating farm productivity, food security, and resource efficiency. For GreenField AgriCorp and the AgriGreen 360: Sustainable Farming for the Future initiative, yield is both a measure of current performance and a critical lever for transformation. In the context of this proposal, our focus is to demonstrate how integrating regenerative agriculture and smart farming technologies can sustainably increase yield while simultaneously reducing environmental impacts. Yield improvement is not just a business imperative; it is foundational to the USDA OSAD's national objectives for climate resilience, rural economic strength, and sustainable food systems.

The Strategic Importance of Yield

Yield is the linchpin connecting farm profitability, resource stewardship, and national food supply. Historically, the agricultural sector has boosted yields through intensification—more chemical inputs, deeper tillage, and heavy irrigation. While effective in the short term, these methods have led to soil degradation, water scarcity, and declining input efficiency, creating a cycle that threatens both future productivity and ecosystem health.

AgriGreen 360 breaks this cycle by reimagining yield enhancement as a product of regenerative and data-driven strategies. Our approach views yield not as a static number, but as a dynamic outcome shaped by soil vitality, water management, biodiversity, and real-time decision-making powered by artificial intelligence. In this way, GreenField AgriCorp aligns with USDA OSAD's call for innovation that is both scalable and replicable, ensuring that yield improvements are lasting and environmentally responsible.

Yield as a Driver of Economic and Social Impact

Improved yields directly translate to greater economic resilience for rural communities—supporting jobs, stabilizing farm incomes, and ensuring a secure supply of food and raw materials for domestic and export markets. By achieving higher yields with fewer inputs, GreenField AgriCorp reduces production costs, lowers entry barriers for smallholders, and demonstrates a model that can be adopted across the U.S. agricultural landscape.

Yield gains also enable more efficient use of land, reducing the pressure to convert natural habitats to farmland and supporting USDA's biodiversity and climate mitigation objectives. In short, yield is not just a number; it is a catalyst for broad-based, systemic impact.

Current and Historic Yield Performance

GreenField AgriCorp has a well-documented record of yield performance across grains, vegetables, fruits, and bioenergy crops. Over the past decade, the company's U.S. operations have consistently outperformed regional and national yield benchmarks due to early adoption of precision agriculture tools and best-in-class crop management.

- **Grain Yields:**

  Average corn yields: 195 bushels/acre (2022–2024), compared to a U.S. national average of 177 bushels/acre.

  Wheat yields: 74 bushels/acre, exceeding the regional average by 14%.

  Soybean yields: 58 bushels/acre, outperforming the state median by 11%.

  These results have been achieved through a combination of soil testing, variable rate fertilization, and targeted pest management.

- **Vegetables and Fruits:**

  Potato yields: Averaged 490 cwt/acre, with organic plots achieving 93% of conventional yields—well above the industry's typical organic yield ratio.

  Berry yields: Blueberries and strawberries have shown 5–9% annual yield increases following the introduction of integrated pollinator strips and drip irrigation.

  This track record provides a robust baseline for evaluating the impact of AgriGreen 360 and demonstrates GreenField AgriCorp's readiness to implement, monitor, and report yield outcomes at scale.

Yield Trends and Underlying Challenges

Despite these successes, GreenField AgriCorp—like the broader industry—faces emerging yield challenges driven by climate volatility, new pest pressures, and legacy soil degradation. Drought years in the Midwest have depressed yields by up to 20% on affected fields, while resistance to pesticides has required more adaptive strategies. These trends underscore the urgency of implementing resilient, regenerative systems capable of withstanding environmental shocks.

Strategies to Sustainably Improve Yield

AgriGreen 360 is structured around a multi-pronged approach to yield enhancement, directly addressing the root causes of stagnating or declining productivity:

Regenerative Soil Management

The widespread adoption of cover cropping, compost application, and reduced tillage is projected to increase soil organic matter, supporting nutrient cycling and water retention. Early pilot plots have demonstrated 12–18% yield gains within three years where these practices were implemented compared to conventional controls.

Precision Technology Integration

Deployment of AI-based crop monitoring, soil moisture sensors, and precision irrigation systems enables real-time data collection and adaptive management. In initial trials, fields managed with these tools have seen up to 22% increases in water-use efficiency and a 9% rise in net yield.

Machine learning algorithms analyze satellite and on-farm sensor data to predict disease outbreaks, optimize planting densities, and time nutrient applications—boosting crop performance while minimizing inputs.

Biodiversity and Ecosystem Services

Introduction of pollinator habitats and diversified crop rotations has produced measurable increases in fruit and vegetable yields due to improved pollination and natural pest suppression.

Wildlife corridors and agroforestry elements create microclimates that buffer crops from extreme weather, further stabilizing yields.

Water Management Innovations

Precision drip irrigation and water recycling systems reduce water stress and ensure that crops receive optimal moisture throughout the growing season. In regions facing recurrent drought, these systems have prevented yield losses and maintained stable production levels.

Data-Driven Measurement and Verification

Yield improvements under AgriGreen 360 will be rigorously monitored using both in-field measurements and remote sensing. Each participating plot will be tracked for yield per acre, input use, and environmental outcomes, allowing for detailed analysis and adaptive management. Independent third-party audits and academic research partners will validate all reported results, ensuring transparency and replicability across the sector.

Yield Projections and Expected Impact

Based on pilot trials and industry benchmarks, GreenField AgriCorp projects the following yield improvements over the five-year project horizon:

- **Grains:** 10–15% average increase in corn, wheat, and soybean yields on transition acres by Year 5, with even greater gains in highly degraded fields.
- **Vegetables/Fruits:** 8–12% yield gains across core vegetable and berry crops, coupled with improved year-to-year yield stability.
- **Bioenergy Crops:** Yield increases of 10–18%, supporting both renewable energy production and carbon sequestration targets.

These gains are expected to be achieved in concert with a 25% reduction in synthetic inputs and a 40% reduction in irrigation water use. Critically, these outcomes will not come at the expense of soil or ecosystem health but will, rather, be indicators of the success of regenerative and technology-enabled practices.

Conclusion: Yield as a Benchmark for Sustainable Transformation

Yield is more than a metric—it is the foundation of agricultural prosperity, environmental stewardship, and national food security. The AgriGreen 360 initiative positions GreenField AgriCorp at the forefront of a new era, where yield improvements are delivered hand-in-hand with climate resilience and ecosystem regeneration. By demonstrating how advanced technologies and regenerative practices drive sustainable yield gains, we offer a replicable roadmap for American agriculture, fulfilling USDA OSAD's vision and maximizing the return on federal investment. The future of yield is not just about growing more, but about growing better—for our communities, our economy, and our planet.

Property

The purpose of this section is to provide a comprehensive inventory and analysis of the property assets GreenField AgriCorp will leverage for the AgriGreen 360: Sustainable Farming for the Future initiative. This detailed property listing demonstrates not only our operational capacity but also our deep-rooted investment in scalable, sustainable agriculture. For federal funders and grant committees, this transparency offers assurance of both the substantial match commitment and the feasibility of rapid project deployment. Our inventory includes real estate (farmland and facilities), intellectual property (patents, proprietary technologies, and data systems), and personal property (equipment, vehicles, and other critical physical assets), all of which collectively underpin the project's ability to serve as a replicable, national model for climate-resilient food systems.

Real Estate

GreenField AgriCorp owns and operates more than 100,000 acres of arable land across North America, with a primary concentration in the U.S. Midwest. These real estate holdings provide the backbone for AgriGreen 360's pilot studies, technology deployments, and full project rollout.

U.S. Farmland Holdings

Over 62,000 acres of prime agricultural land in Nebraska, Iowa, and Illinois, with legal titles held in full by GreenField AgriCorp. Properties are mapped, registered, and compliant with all USDA regulations. Parcel identification numbers, deeds, and survey maps are on file for inspection. The average age of farm buildings is under 20 years, reflecting regular reinvestment in infrastructure.

Each farm site includes advanced irrigation installations, climate-controlled storage, and on-site research plots suitable for immediate deployment of regenerative and digital agriculture pilots. Several properties are equipped with solar and wind energy units, supporting both operational needs and renewable energy goals.

Processing and Research Facilities

GreenField AgriCorp wholly owns three major grain and produce processing centers in Lincoln, Nebraska; Peoria, Illinois; and Des Moines, Iowa. Facilities are valued at over $80 million collectively (based on 2024 appraisals) and include integrated logistics hubs and quality assurance labs.

Our state-of-the-art agricultural research center in Lincoln is the nerve center for AgriGreen 360's R&D and data collection. This 45,000-square-foot facility houses advanced labs, climate chambers, and innovation suites for AI and IoT system integration. All facilities are fully permitted, insured, and maintained according to federal and state guidelines.

Ownership and Encumbrance

All listed properties are 100% owned by GreenField AgriCorp. There are no third-party liens, encumbrances, or unresolved ownership disputes, ensuring that these assets can be freely committed to project use or as in-kind match against federal funding requirements.

Intellectual Property

GreenField AgriCorp possesses a robust portfolio of intellectual property (IP) that provides critical competitive advantage and underpins the innovation strategy of AgriGreen 360. Our IP assets span proprietary software, patented technologies, and data sets essential for smart, sustainable agriculture.

Patented Technologies

GreenField AgriCorp holds 11 active U.S. patents related to precision agriculture, including automated sensor calibration (US 9,718,345), adaptive variable-rate irrigation (US 10,432,122), and real-time crop disease modeling (US 10,995,876). These patents are solely owned, with no licensing restrictions, allowing unrestricted deployment throughout our operations.

In addition, the company maintains pending applications for two patents covering regenerative farming input delivery systems and advanced composting process control—technologies central to the AgriGreen 360 regenerative framework.

Software and Data Systems

Proprietary FarmSight™ digital platform: This comprehensive AI-driven farm management suite is the intellectual property of GreenField AgriCorp. It integrates satellite imagery, IoT sensor data, weather feeds, and machine learning models to inform crop planning, input optimization, and environmental reporting. FarmSight™ is fully developed and supported in-house, with all source code and algorithms owned outright.

Exclusive data rights: Through decades of operations, GreenField AgriCorp has compiled a unique, longitudinal dataset encompassing crop yields, soil health metrics, water use, and biodiversity indicators. These datasets are proprietary and will be used for both internal benchmarking and third-party project evaluation.

Trademarks and Brand Assets

GreenField AgriCorp, AgriGreen 360, and FarmSight™ are registered trademarks, providing protection and ensuring brand integrity in federal and international contexts.

Personal Property

GreenField AgriCorp's physical assets are extensive, modern, and fully capable of supporting the ambitious scope of AgriGreen 360. These assets ensure immediate operational readiness and minimize the need for additional capital outlay, strengthening the project's fiscal sustainability and implementation speed.

Agricultural Equipment and Machinery

The company owns a fleet of over 420 tractors, 180 combine harvesters, and 265 planting and seeding rigs—each equipped with GPS-guided precision controls. All major equipment is less than 8 years old, has full maintenance records, and is owned without liens.

Over 320 irrigation systems, including advanced drip and moisture-sensing platforms, are installed and operational across our U.S. farms. These systems will be central to the water optimization and conservation targets of AgriGreen 360.

Vehicles, Storage, and Logistics Assets

GreenField AgriCorp owns 95 transport vehicles, ranging from heavy-duty produce carriers to service trucks and support vehicles—all fitted with telematics for operational tracking and efficiency.

Storage infrastructure includes 18 climate-controlled produce warehouses, 11 grain elevators, and multiple cold chain staging areas, enabling secure, high-quality throughput from field to market.

Livestock and Biological Assets

While GreenField AgriCorp's core business is crop production, the company maintains a small herd of heritage cattle and sheep for ecological grazing research and cover crop integration. All livestock are company-owned and included in our on-farm biodiversity initiatives.

Bank Accounts and Financial Instruments

GreenField AgriCorp maintains all corporate bank accounts, working capital reserves, and investment accounts independently, with no commingled interests or shared accounts with external entities.

Sustainability

AgriGreen 360: Sustainable Farming for the Future is designed from inception to ensure longevity, self-sufficiency, and impactful growth well beyond the life of the initial USDA Office of Sustainable Agriculture Development (OSAD) grant. Sustainability—ecological, economic, and operational—is the project's central pillar and is explicitly woven into every phase of planning, implementation, and scaling. This chapter demonstrates how AgriGreen 360 will deliver enduring benefits to GreenField AgriCorp, rural communities, and the broader U.S. food system, meeting the rigorous expectations of both federal agencies and grant committees.

Long-Term Financial Self-Sufficiency

One of the most critical aspects of the AgriGreen 360 project's sustainability is its robust plan to achieve financial self-sufficiency following the grant period. GreenField AgriCorp's model prioritizes investments that result in significant, recurring cost savings and new revenue streams. These strategies ensure that project gains are not only maintained but are reinvested to drive further innovation and expansion.

Cost Reductions Through Regenerative and Precision Practices

By integrating regenerative agriculture methods (such as cover cropping, reduced tillage, and composting) and smart farming technologies (like AI-driven crop management and precision irrigation), GreenField AgriCorp anticipates a minimum 25% reduction in synthetic input costs and a 40% decrease in water usage by Year 5. These savings will be recirculated into farm operations, ongoing technology upgrades, and community programs—ensuring continuous improvement and independence from future federal funding cycles.

Additionally, healthier soils with greater organic matter will reduce dependency on purchased fertilizers and pesticides, further lowering input expenses and buffering against market volatility.

Revenue Diversification and Market Premiums

The project's focus on certified regenerative and climate-smart crops positions GreenField AgriCorp to capture price premiums in both domestic and international markets. With buyers increasingly seeking traceable, sustainably produced grains, vegetables, and bioenergy crops, AgriGreen 360 enables GreenField to secure long-term contracts, multi-year supply agreements, and niche market access (e.g., organic, zero-waste, and carbon-negative product lines).

This revenue diversification is reinforced by continuous innovation—such as the expansion of plant-based protein crops and specialty produce—ensuring GreenField AgriCorp's resilience to commodity price shifts and evolving market demands.

Environmental and Operational Sustainability

The core of AgriGreen 360's value proposition is environmental stewardship achieved through operational excellence. The project's sustainability is not limited to financial metrics; it extends to natural resource regeneration, ecosystem health, and the responsible use of technology and infrastructure.

Soil Health, Water Conservation, and Biodiversity

Sustained soil health is maintained through adaptive rotations, cover cropping, and compost application—all practices that enhance long-term fertility, water retention, and carbon sequestration. Integrated biodiversity initiatives (such as pollinator strips and wildlife corridors) foster ecological resilience, reduce pest pressures, and support pollination, creating a positive feedback loop for yield and environmental stability.

The deployment of cutting-edge irrigation systems, moisture sensors, and data-driven water management software ensures that water use remains efficient and adaptive as climate conditions evolve. These efforts are reinforced by expanded water recycling infrastructure in processing facilities—minimizing withdrawal from stressed water sources and adhering to circular economy principles.

Resource and Equipment Lifecycle Management

Equipment investments made during the project are designed for durability and upgradability. GreenField AgriCorp commits to ongoing maintenance, software updates for digital tools, and the phased renewal of machinery with energy-efficient alternatives as part of its capital improvement plan. Contracts with technology providers include provisions for long-term service support and training, ensuring that operational advantages persist as technologies evolve.

Human Capital and Community Empowerment

No sustainability strategy is complete without addressing the human element. AgriGreen 360's future is secured through a comprehensive workforce development approach and strong community engagement.

Workforce Training and Capacity Building

All GreenField AgriCorp employees—including farm managers, equipment operators, and technical staff—will continue to receive annual training in regenerative practices, circular economy systems, and new digital technologies. Partnerships with local extension services and educational institutions will ensure ongoing access to industry-leading curricula, certifications, and on-farm demonstration opportunities.

This investment in human capital fuels a culture of continuous learning and innovation, reduces workforce turnover, and builds a pipeline of skilled professionals eager to advance sustainable agriculture.

Community Engagement and Rural Resilience

GreenField AgriCorp's model integrates local producers, advisory panels, and underserved rural populations into decision-making and knowledge dissemination. The company will maintain regular stakeholder engagement through field days, participatory research, and open-access reporting. Community-focused initiatives—including youth education, rural job creation, and public health collaborations—will continue to be funded through operational revenues, philanthropic partnerships, and reinvested project savings.

These efforts create a "virtuous circle," ensuring that community support and input remain central to project evolution and replication.

Institutional and Policy Alignment

GreenField AgriCorp is committed to upholding the highest standards of accountability, transparency, and policy compliance—safeguarding both the project's sustainability and its value as a national model.

Ongoing Monitoring, Reporting, and Compliance

Through continued use of advanced data analytics platforms and third-party audits, GreenField AgriCorp will track environmental, social, and financial indicators of sustainability. Annual sustainability reports—including carbon emissions, water use, biodiversity metrics, and economic impact—will be shared with stakeholders and made publicly available. This transparency facilitates constructive feedback, adaptive management, and benchmarking against USDA and global standards.

Pursuit of Supplementary Funding and Strategic Partnerships

While AgriGreen 360 is structured for economic self-sufficiency, GreenField AgriCorp will also pursue new grant opportunities, cost-share programs, and private sector collaborations to accelerate adoption of breakthrough technologies and expand demonstration sites. Robust partnerships with research institutions, technology companies, and conservation groups ensure fresh ideas and continued federal, state, and philanthropic support when needed.

Growth and Replicability

Sustainability is defined not only by continuity but by the capacity to grow, replicate, and inspire broader change.

Scalable Model and Knowledge Sharing

The AgriGreen 360 framework—including operational protocols, performance benchmarks, and stakeholder engagement strategies—will be documented in a replicable toolkit for other producers, extension agents, and policymakers. GreenField AgriCorp will host workshops, webinars, and field demonstrations to accelerate regional and national dissemination, maximizing the return on federal investment.

Continuous Innovation and Responsiveness

A dedicated internal innovation team will monitor emerging trends, technologies, and policy shifts, ensuring the project remains future-ready. Feedback loops from R&D activities, grower networks, and community advisory panels will inform strategic pivots and growth opportunities.

Conclusion

Through a holistic, multi-faceted sustainability plan, GreenField AgriCorp guarantees that the benefits of AgriGreen 360 will persist and expand far beyond the duration of federal funding. By generating recurring savings, diversifying revenue, regenerating resources, investing in people, and embedding a culture of innovation, the project is positioned as a model for enduring agricultural transformation—delivering on the promise of climate resilience, rural prosperity, and environmental stewardship for decades to come.

Uses of Funds

GreenField AgriCorp is requesting funding from the USDA Office of Sustainable Agriculture Development (OSAD) to support the successful implementation of the AgriGreen 360: Sustainable Farming for the Future project. In direct alignment with federal sustainability priorities, these funds will be strategically allocated to maximize measurable environmental outcomes, foster technological innovation, build rural workforce capacity, and create a replicable model for climate-resilient agriculture. The following outlines the principal uses of grant funds, detailing how each investment will drive transformative change, ensure compliance with grant requirements, and secure the long-term viability of both the project and the communities we serve.

Precision Agriculture Technology Deployment

Amount: $1,950,000

GreenField AgriCorp will invest a substantial portion of the grant in the acquisition and deployment of advanced precision agriculture technologies across pilot and production farms. This includes AI-powered crop monitoring platforms, IoT-based soil moisture sensors, and precision drip irrigation systems. The funds will be used to purchase hardware, software licenses, and associated data management systems, as well as to contract specialized technical support for installation, calibration, and ongoing maintenance.

This investment will enable GreenField AgriCorp to optimize resource use by delivering water and nutrients exactly where and when crops need them, drastically reducing waste and input costs. Real-time data analytics will empower farm managers to make timely, evidence-based decisions, leading to a projected 40% reduction in water usage and a 25% decrease in synthetic fertilizer and pesticide application. These technologies will not only enhance yield and profitability but also serve as a replicable demonstration for farms nationwide, amplifying the impact of federal investment.

Regenerative Agriculture Implementation and Soil Health Restoration

Amount: $1,600,000

A critical allocation of funds will support the large-scale adoption of regenerative agriculture practices designed to restore and enhance soil health. This includes the purchase of cover crop seed, composting infrastructure, bio-based fertilizer materials, and no-till equipment attachments. Additional resources will be dedicated to establishing on-farm composting systems, agroforestry elements, and wildlife corridors to boost soil organic matter and biodiversity.

Through these investments, GreenField AgriCorp aims to reduce greenhouse gas emissions, improve soil fertility, and increase long-term resilience against drought and disease. The expected results include a 0.5% annual increase in soil organic matter, measurable reductions in carbon emissions, and improved crop yields with lower input requirements. These practices will be rigorously monitored and documented through third-party audits and research partnerships, ensuring transparent reporting and broad knowledge transfer to other agricultural stakeholders.

Workforce Development, Community Engagement, and Training

Amount: $800,000

To ensure the successful adoption and longevity of sustainable practices, significant funding will be allocated to workforce development, community engagement, and education initiatives. These funds will support the creation and delivery of training programs for GreenField AgriCorp employees, local farmers, and members of underserved rural communities. Partnerships with agricultural extension services, universities, and workforce development agencies will be leveraged to create curricula focusing on regenerative farming, precision technology operation, and circular economy principles.

This funding will result in a highly skilled workforce capable of maximizing the benefits of new technologies and sustainable practices. It will also empower local communities through job creation, technical training, and active participation in project pilot programs. By building capacity and fostering stakeholder buy-in, GreenField AgriCorp will ensure long-term project sustainability and help bridge the knowledge gap that often hinders the widespread adoption of climate-smart agriculture.

Circular Economy Systems and Waste Reduction

Amount: $400,000

Funds will be deployed to develop and scale circular economy initiatives—including the installation of on-farm waste processing systems, water recycling infrastructure, and closed-loop nutrient cycling platforms. This allocation covers the purchase of composters, waste-to-energy units, biodegradable packaging solutions, and smart waste tracking tools. Additional support will be directed toward pilot programs that demonstrate the feasibility and benefits of zero-waste farming approaches.

The expected results are a 90% diversion of organic waste from landfills, significant reductions in operational waste costs, and the establishment of a model that turns agricultural byproducts into valuable inputs for soil health and energy production. These circular systems will directly support USDA’s sustainability and resource efficiency goals while reinforcing GreenField AgriCorp’s commitment to environmental stewardship.

Environmental Impact Monitoring and Data Analytics

Amount: $250,000

A targeted portion of grant funds will be dedicated to the design and implementation of robust environmental monitoring and data analytics systems. This includes the acquisition of remote sensing equipment, biodiversity assessment tools, and enhanced digital reporting platforms required for transparent federal compliance. Grant resources will also cover the cost of collaborating with academic and third-party research partners for independent verification and publication of project results.

The outcome of this investment will be the establishment of a transparent, data-driven performance management framework—capable of tracking carbon emissions, water savings, soil health, and biodiversity gains in real time. This infrastructure will support adaptive management, ensure rigorous accountability to the USDA OSAD, and provide actionable insights for scaling best practices across the broader agriculture sector.

Matching Funds and In-Kind Contributions

Amount: $500,000 (minimum, as required by RFP)

In accordance with federal cost share requirements, GreenField AgriCorp will provide at least $500,000 in matching funds and in-kind contributions. This includes the direct allocation of personnel time, use of existing farm equipment, research facilities, and company-owned land for project pilots and demonstration sites. These contributions magnify the reach of federal funds and demonstrate GreenField AgriCorp's firm commitment to project success and fiscal responsibility.

Matching funds will be carefully documented and reported in compliance with USDA guidelines, ensuring full transparency and maximizing the value of public-private partnership.

Summary

Through a balanced, strategic allocation of funds, GreenField AgriCorp's AgriGreen 360 project will transform both how food is produced and how agricultural stewardship is measured in America. Investments in technology, regenerative practices, workforce training, circular economy systems, and environmental monitoring will deliver measurable gains in yield, resource efficiency, carbon reduction, and rural resilience. Each use of funds is purposefully designed to meet and exceed USDA OSAD's objectives, serve as a replicable model for the nation, and guarantee a legacy of sustainability for generations to come. By supporting this funding request, OSAD ensures that federal resources catalyze industry-leading innovation and enduring positive impact across the agricultural landscape.

Return on Investment

Detailed below is the Return on Investment (ROI) analysis for the project. The costs for the development, operations, and ongoing maintenance of the project vs. the benefits are summarized for a 5-year period.

Description	2025	2026	2027	2028	2029	Total
Total Costs	$150,000	$50,000	$50,000	$50,000	$50,000	$350,000
Benefits	$50,000	$90,000	$120,000	$135,000	$150,000	$545,000
Net	($100,000)	$40,000	$70,000	$85,000	$100,000	$195,000
Ratio	-0.67	0.80	1.40	1.70	2.00	0.56
ROI	-67%	80%	140%	170%	200%	56%

Financial ROI Benefits

As you can see by the chart above, the initial startup cost can be earned back within only a few years. Within ten years, we can easily sustain the farm project, pay back our investors, and make a healthy profit each year. All the profits earned by the farm will stay in the local community, thus supporting local schools and other small businesses.

Non-Financial ROI Benefits

The non-financial benefits of our communal farm project are immeasurable to the King County community. We will provide healthy organic food for the community, bees that will help pollinate nearby crops, and educational and recreational opportunities.

About Us

GreenField AgriCorp stands as a beacon of sustainable progress and innovation in the global agricultural sector. Founded in 1985 in Lincoln, Nebraska, GreenField AgriCorp was established with a singular vision: to feed the world responsibly, preserving the planet's precious resources for generations to come. Over the last four decades, we have grown from a regional farming operation into a leading international agribusiness, cultivating over 100,000 acres across North America, South America, and Europe. Our journey has been marked by a relentless pursuit of excellence, sustainability, and community engagement—values that have guided every decision and propelled us to the forefront of the agriculture industry.

At the core of GreenField AgriCorp is our mission statement: **We believe in feeding the world responsibly.** Our commitment is to produce and deliver nutritious, sustainable crops while safeguarding our planet's health. By fostering agricultural innovation and supporting global food security, we are dedicated to ensuring that future generations inherit an agricultural system as rich and resilient as the one we steward today.

Our unique selling proposition is clear: GreenField AgriCorp combines proven, large-scale production capacity with industry-leading sustainability and technological innovation. As early adopters of regenerative agriculture and smart farming technologies, we offer our partners and stakeholders not only premium-quality crops but also traceability, transparency, and assurance that every product is grown with respect for nature and community. Our robust research partnerships and investment in AI-driven decision support systems set us apart as a model for climate-resilient agriculture in the twenty-first century.

Over the years, GreenField AgriCorp has achieved significant industry milestones that exemplify our leadership. We pioneered the adoption of precision agriculture tools long before they became industry standard, leading to measurable gains in yield and input efficiency. Our work in regenerative agriculture—such as large-scale cover cropping, composting, and the establishment of pollinator habitats—has resulted in double-digit improvements in soil health, water retention, and biodiversity. We are proud to be recognized by partners and industry bodies for exceeding federal and global benchmarks on carbon reduction, water conservation, and rural economic development.

Our production capabilities represent the best in modern agriculture. GreenField AgriCorp's expansive acreage is managed using state-of-the-art equipment, including GPS-guided tractors, AI-powered crop monitoring systems, and IoT-enabled irrigation infrastructure. These tools empower us to cultivate a diverse range of crops efficiently and sustainably, with precise application of water, nutrients, and crop protection products. Our processing and logistics network—including three major processing centers and multiple cold storage facilities—ensures timely delivery of fresh, high-quality produce to markets around the world. With an annual production capacity that supplies both domestic and international buyers, GreenField AgriCorp is positioned to meet the growing global demand for sustainable, traceable food and renewable resources.

GreenField AgriCorp was founded in 1985 and currently employs over 2,000 dedicated professionals, each committed to advancing our mission of responsible agriculture. Headquartered in Lincoln, Nebraska, we also have major offices and operational hubs in Peoria, Illinois; Des Moines, Iowa; and international outposts supporting our global reach.

Products

GreenField AgriCorp offers a comprehensive suite of agricultural products to serve diverse market needs:

Services

Our service offerings extend beyond crop production, positioning GreenField AgriCorp as a comprehensive partner in agricultural progress:

How to Contact GreenField AgriCorp - If you need to contact us for any reason, you can reach us at:

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Our ongoing commitment is not just to grow crops, but to grow communities, economies, and a sustainable future. We invite all stakeholders—federal partners, local communities, research institutions, and industry colleagues—to join us in shaping the next chapter of American and global agriculture. At GreenField AgriCorp, we are ready to lead, innovate, and collaborate to ensure a resilient food system for the future.

Personnel

The following personnel will be assigned to the AgriGreen 360: Sustainable Farming for the Future project. GreenField AgriCorp has carefully selected a multidisciplinary team with proven expertise in regenerative agriculture, advanced agri-tech integration, environmental sustainability, and large-scale project management. This team brings together decades of direct experience, academic credentials, and a demonstrated track record of innovation, ensuring successful delivery, compliance, and measurable impact aligned with USDA OSAD and SFAG program objectives.

Jonathan Miller

Chief Executive Officer
Lincoln, Nebraska, USA

Jonathan Miller leads GreenField AgriCorp with over 35 years of executive experience in the agricultural sector. He has overseen the company's transformation from a regional farm operation into a global leader in sustainable crop production, technology adoption, and community development. Under his leadership, GreenField AgriCorp pioneered the company's first large-scale adoption of precision agriculture technologies and advanced soil health initiatives, which have become national benchmarks for environmental stewardship and operational efficiency.

Jonathan's most notable achievements include directing GreenField's transition to regenerative farming on more than 50,000 acres, launching the FarmSight™ digital management platform, and securing multiple industry awards for innovation in sustainable agribusiness. He is a frequent speaker at the World Food Prize and has served on advisory boards for several international food and sustainability organizations.

Prior to joining GreenField AgriCorp, Jonathan served as Director of Sustainable Farming Initiatives at AgroGlobal Ltd., where he led the integration of data-driven management systems across North American operations.
Jonathan graduated with a Bachelor of Science degree in Agronomy from the University of Nebraska–Lincoln and holds an Executive MBA from Northwestern University's Kellogg School of Management. He began his career as an agronomist with Prairie Partners Cooperative.

Dr. Priya Ramanathan

Vice President, Research & Development
Lincoln, Nebraska, USA

Dr. Priya Ramanathan heads the R&D team at GreenField AgriCorp and is the principal architect of the AgriGreen 360 platform. With over 20 years of research experience in regenerative agriculture, biogeochemistry, and agri-tech innovation, she has led multidisciplinary teams in designing, piloting, and scaling technology-enabled sustainability solutions. Dr. Ramanathan was instrumental in developing and validating GreenField's

proprietary soil health monitoring system and has published over 40 peer-reviewed articles on sustainable crop management and environmental impact assessment.

Her most notable biographical details include her leadership role in a multi-partner USDA-funded study on cover cropping and carbon sequestration, resulting in measurable reductions in farm-level emissions and input costs. Dr. Ramanathan has also served as an invited expert for the UN Food and Agriculture Organization (FAO) on climate-smart agriculture.

Prior to joining GreenField AgriCorp, Dr. Ramanathan led Agronomic Research at TerraVita AgroScience, where she managed field experiments on bio-based fertilizers and precision irrigation in collaboration with land-grant universities.
She graduated with a Ph.D. in Soil Science from Iowa State University and holds a Master of Science degree in Environmental Sciences from the University of Illinois. She began her career as a research associate at the International Center for Tropical Agriculture (CIAT).

Carlos Estevez

Director of Digital Agriculture & Technology Integration
Des Moines, Iowa, USA

Carlos Estevez is responsible for the deployment and scaling of AgriGreen 360's digital agriculture infrastructure, including AI-driven crop monitoring, IoT sensor networks, and precision irrigation systems. With more than 18 years of experience in agricultural engineering and smart farm technology, Carlos has overseen the successful rollout of precision agriculture solutions on over 200,000 acres globally. His leadership has enabled GreenField AgriCorp to achieve industry-leading water and input efficiencies and to meet stringent federal and market traceability standards.

Carlos's most notable achievements include the design and implementation of FarmSight™, GreenField's proprietary AI-based farm management suite, and his role as lead systems engineer on two national AgTech award-winning projects for sensor-based irrigation and automated pest management. He brings an agile, data-driven approach that bridges the gap between field realities and advanced informatics.

Prior to joining GreenField AgriCorp, Carlos led Smart Farming Systems at HarvestEdge Technologies, where he developed integrated software-hardware solutions for commercial-scale producers across the Midwest.
Carlos graduated with a Bachelor of Science degree in Agricultural Engineering from Purdue University and holds a Master of Science in Computer Science from Iowa State University. He began his career as a field engineer for AgriSmart Solutions.

Camila Alvarez

Chief Financial Officer
Lincoln, Nebraska, USA

Camila Alvarez oversees all fiscal operations, compliance, and federal reporting for the AgriGreen 360 project. With more than 15 years of experience in agribusiness finance and grant management, Camila ensures meticulous budgeting, transparent use of federal and matching funds, and adherence to USDA OSAD's stringent financial guidelines. She has led GreenField AgriCorp's successful acquisition and administration of over $40 million in

public and private grant funding over the last decade, supporting transformative expansions in sustainable production.

Camila's most notable contributions include pioneering GreenField's ROI tracking framework for sustainability investments and developing the company's financial sustainability plan that has been adopted as a best practice by multiple industry peers. Her leadership ensures the project's fiscal responsibility and long-term viability.

Prior to joining GreenField AgriCorp, Camila managed Agricultural Finance Programs at Midwest BankCorp, where she implemented performance-based funding systems for farm and agri-tech clients.
She graduated with a Master of Business Administration from the University of Nebraska–Lincoln and holds a Bachelor of Science degree in Finance from the University of Texas at Austin. She began her career as a financial analyst for CropFund Capital Group.

Maya Sanchez

Senior Manager, Community & Stakeholder Engagement
Lincoln, Nebraska, USA

Maya Sanchez leads GreenField AgriCorp's efforts to engage local communities, coordinate with research partners, and facilitate workforce development programs. Her 14 years of experience in rural development, agricultural education, and stakeholder coalition-building are critical to fulfilling both the social and economic objectives of the AgriGreen 360 initiative. Maya has designed and implemented dozens of training and outreach programs, empowering over 3,000 local producers and rural youth with knowledge in regenerative farming and digital technology.

Maya's most notable achievements include spearheading the company's partnership with the University of Nebraska–Lincoln for farmer training, and launching GreenField's Rural Opportunity Program, which received state and federal commendation for its impact on workforce equity and inclusion.

Prior to joining GreenField AgriCorp, Maya led Rural Engagement Initiatives at Heartland Outreach Foundation, focusing on underserved and minority farming communities.
She graduated with a Master of Public Administration from Kansas State University and holds a Bachelor of Science degree in Agricultural Extension from the University of Missouri. She began her career as an extension educator for the Missouri Department of Agriculture.

Summary

Together, this accomplished team brings the expertise, vision, and operational rigor required to deliver a complex, large-scale project with national impact. Their combined experience in regenerative agriculture, digital farm technology, financial management, and community engagement aligns directly with the USDA OSAD's evaluation criteria for innovation, feasibility, and replicability. By leveraging these leaders' diverse backgrounds and industry recognition, GreenField AgriCorp assures the Grant Review Committee that AgriGreen 360 will be executed to the highest standards—with measurable outcomes, transparent reporting, and a clear pathway to long-term sustainability and broad adoption across American agriculture.

Greenfield Agricorp

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