



**GIFS**

GLOBAL INSTITUTE  
FOR FOOD SECURITY

*Growing science for life*

Nutrien - a Founding Partner



# The Global Institute for Food Security

Discovering, developing and delivering innovative solutions for the production of globally sustainable food.



[www.gifs.ca](http://www.gifs.ca)

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..... *Our Founding Partners* .....



# Finding solutions to the challenges facing the global food system requires an innovative and collaborative approach that delivers value to all stakeholders.

The Global Institute for Food Security (GIFS) at the University of Saskatchewan (USask) works with partners to discover, develop and deliver innovative solutions for the production of globally sustainable food. Serving as 'agriculture's innovation catalyst', GIFS is connecting the agri-food ecosystem, advancing innovation and bridging the gap to commercialization to deliver resilient and sustainable food security for all stakeholders. Our **scientific programs** span discovery research through to full-scale production of commercial outputs while our **technology platforms** transform our scientific competencies and capabilities into capacities for stakeholders.

## WE ARE OPEN FOR BUSINESS.

Located within one of the world's strongest agri-science ecosystems, we are helping to build a food-secure world from Saskatchewan-out, working with, industry, producers, consumers, academics and governments both at home and abroad to decrease the time between the discovery of innovative science and its delivery to market at home and around the globe.

## Programs



### ACCELERATED BREEDING

We're shortening the breeding cycle of crops to get high-quality and high-yielding varieties into the hands of producers faster.



### BIOMANUFACTURING

By combining automation, biology and computational tools, we're harnessing biological processes for important uses in agriculture and food — all at rapid scale.



### POLICY AND REGULATORY

We're a preferred partner with a distinct voice to tell the sustainability story of agriculture and share its potential from a whole systems perspective, supporting the creation of science-based, predictable regulations for innovation in agriculture.

## Platforms



### OMICS & PRECISION AGRICULTURE LABORATORY

OPAL is our state-of-the-art facility that provides comprehensive analyses of microbial, plant and animal samples – delivering crystal clear, actionable data for the agriculture and agri-food sectors.



### DATA MANAGEMENT & ANALYTICS

Our Data Management and Analytics Platform enables the development, deployment and use of digital technologies to improve the management, analysis and application of R&D data in the design of new innovations that advance food security.



### CELL BIOLOGY

Our Cell Biology Platform provides technical expertise and scale to support plant biology research, serving also as a practical tool for cultivar improvement for our research programs, our partners and the agbiotech ecosystem.



### PLANT GROWTH FACILITIES

Our Plant Growth Facilities Platform provides plant growth space, plant production supplies, integrated pest management solutions and quality seed to our internal and external stakeholders.



### ENGINEERING BIOLOGY

Our Engineering Biology Platform combines automation and miniaturization, biology and computation (ABC) to rapidly scale up the design, construction, refinement and production of more nutritious and sustainable crops and food products.



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## Partner With Us

Reach out to us at [partnerwithus@gifs.ca](mailto:partnerwithus@gifs.ca) or scan the QR code to explore partnership opportunities today.

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