The Global Institute for Food Security

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

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Our Founding Partners

Nutrien™  
Feeding the Future™

Saskatchewan

University of Saskatchewan
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.

**Programs**

- **Resilient Agriculture**
  By advancing new knowledge and understanding of the key genes and mechanisms underpinning agronomically important crop traits and technologies, our Resilient Agriculture Program will create a crop gene discovery pipeline.

- **Root-Soil-Microbiome Interactions**
  Our Roots-Soil-Microbial Interactions program digs into the relationship between roots, soil and its micro-organismal complement—a dynamic ecosystem that has a substantial effect on soil fertility and crop health.

- **Plant Improvement**
  Our Plant Improvement program, the Plant Phenotyping and Imaging Research Centre (P²IRC), is a digital agriculture research centre developing innovative tools to accelerate and transform crop breeding and food production.

- **Strategic Partnerships**
  We serve as a connector and catalyst in the agri-food ecosystem. Through our Strategic Partnerships Program, we ensure that we are delivering research & development solutions suited to the agriculture and agri-food needs of regional, national and global communities.

**Platforms**

- **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.

- **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.

- **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.

- **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.

- **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.

Reach out to us at partnerwithus@gifs.ca or scan the QR code to explore partnership opportunities today.

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**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.