

Future S.E.T (Science, Education, Technology)

S.E.T to Gro

An initiative towards economic empowerment of STEM youth through sustainable food cultivation

Innovate. Cultivate. Educate.

www.setfuture.org

Our Team



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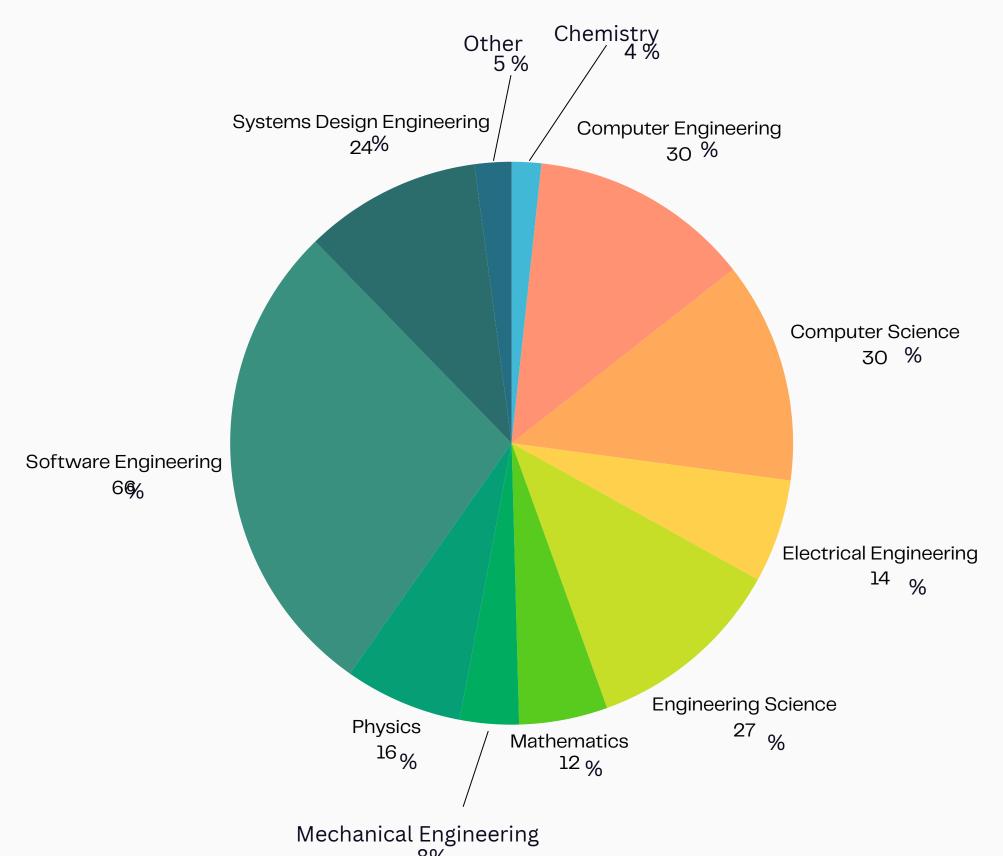
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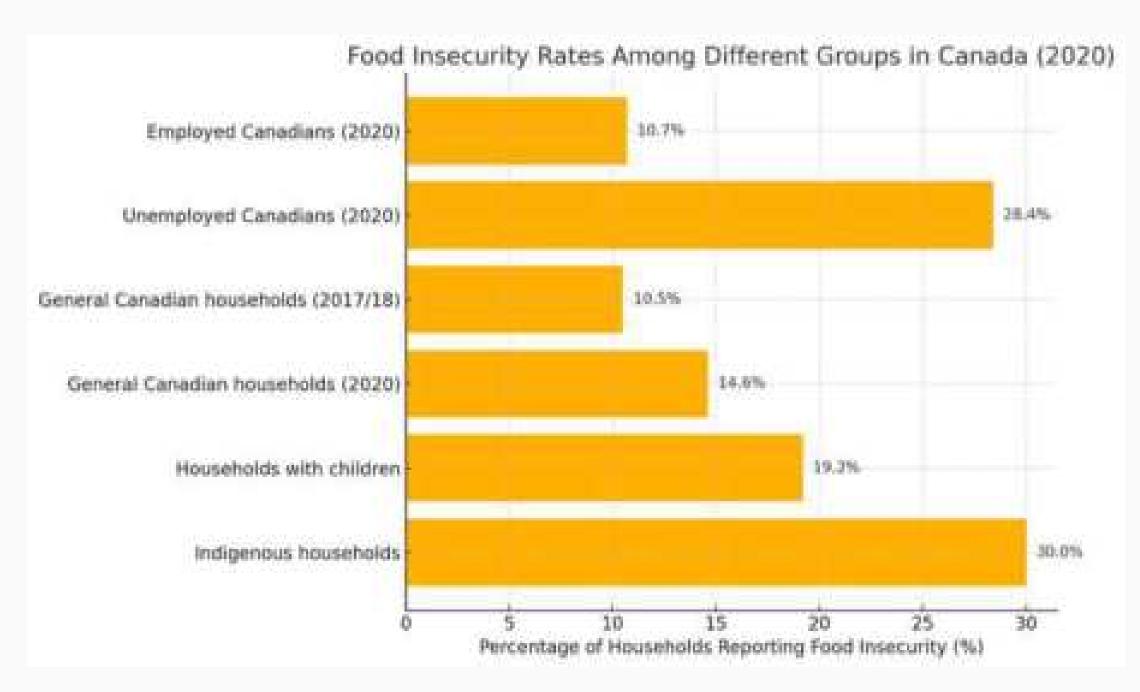
- We are a collective of like-minded STEM youth working to change the narrative and create pathways to opportunity
- Despite Canada's investment in STEM education, many skilled graduates from Black and marginalized communities still face unemployment or underemployment
- The issue isn't talent... it's access. A lack of industry connections and insider networks means that "who you know" often matters more than what you know.
- These barriers disproportionately impact Black Canadians, limiting their chances to apply their skills and thrive in the STEM workforce

The Problem: Canada's Growing Brain Drain



- A 2018 study into the employment motivated migration of Canada's STEM graduates revealed 1 in 4 STEM graduates leave Canada to find work
 - Of these, the innovation sectors i.e.
 computer science, software engineering,
 were among the highest percentages
- This revealed Canada's growing brain drain problem
 - From over 3'000 graduates, many reported being unable to find adequate work despite having highly successful academic careers to boost their chances of employment

The Problem: Who's Going Hungry? The Unequal Face of Food Insecurity in Canada



- In May 2020, 14.6% of Canadian households were food insecure — up from 10.5% in 2017/18, highlighting the pandemic's impact
- Unemployed Canadians reported food insecurity at 28.4%, nearly three times higher than employed individuals (10.7%)

Definition: Food insecurity is the inability to access or afford enough safe, nutritious, and culturally appropriate food to meet one's daily needs for a healthy and active life.

Our Solution

ECONOMIC

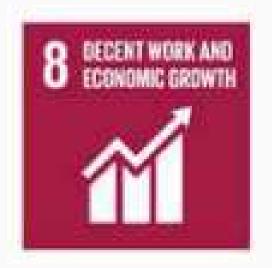
EMPOWERMENT

- We are bridging the youth STEM unemployment gap by marrying the skills of STEM youth with the increasing demand for innovation in the Agri-Tech and sustainability sector, to address climate change and food insecurity
- We aim to establish the first youth-led AgriTech research centre in North America
- We are achieving this through the following action plan:

COMMUNITY



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By the youth, for the youth

Our Solution: Economic Empowerment

Priority access to partnerships with leading STEM employers

nationwide

SDG 8: Decent Work Economic Growth

- Creating career pathways for STEM graduates in the Agri– Tech sector
- Providing meaningful job opportunities for students
- Partnering with top employers nationwide to boost placement in leading STEM companies
- Hosting webinars on economic empowerment and employment readiness
- Building an inclusive community dedicated to sustainability and youth economic advancement





Interactive webinars focused on economic empowerment





Our Solution: Community

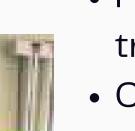
By the youth, for the youth

SDG 1 (No Poverty)

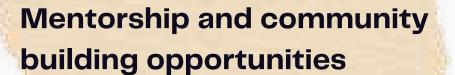
SDG 2 (Zero Hunger)

- Engaging STEM youth in real-world solutions to food security using hydroponic and aeroponic technologies
- Expanding co-ops and internships to bridge STEM education with Agri-Tech innovation
- Empowering youth to implement tech-driven food systems in schools and communities





- Fostering community-based food models led by trained youth in underserved areas
- Creating sustainability ambassadors through STEM education and outreach
- Providing hands-on experience in teaching, leadership, and mentorship through community workshops
- Fostering STEM and Agri–Tech entrepreneurship through skill–training







Our Solution: Sustainability

SDG 2 (Zero Hunger) SDG 13 (Climate Action) By the youth, for the youth



- Training STEM youth to advocate for sustainable agriculture and environmental impact reduction
- Advancing hydroponic system development and manufacturing through STEM innovation
- Establishing domestic hydroponic production of culturally relevant foods for vulnerable communities
- Engineering cost-effective, tech-driven hydroponic models for scalable, sustainable food production
- Applying the scientific method and analytical skills to improve hydroponic system design
- Using data-driven problem-solving to enhance impact and performance of hydroponic systems
- Creating public-private partnerships to scale Agri-Tech innovation across Ontario and Canada





Our Solution: Research & Innovation

SDG 4 (Quality Education)

By the youth, for the youth

- Empowering STEM youth to solve real-world global challenges
- Building cross-sector partnerships with universities, industry leaders, and research institutions across North America
- Developing interdisciplinary training programs combining hydroponics, food security, and climate resilience
- Integrating AI and data-driven solutions into Agri-Tech innovation to enhance system efficiency and scalability



 Creating direct employment, volunteer, and mentorship opportunities with leading agricultural experts







What's Next?

"Dream the impossible because dreams do come true"

- Elijah Mccoy
- Launch Agri-Tech incubators across Ontario as the first phase toward a provincial research and innovation centre
- Combating Canada's brain drain by retaining top STEM talent and positioning youth as global agritech innovators
- Cultivating a province-wide community of STEM leaders committed to solving global food challenges
- Providing fresh, locally grown produce to underserved and minority communities
- Establish greenhouse hubs as hands-on STEM training centers for sustainable agriculture and food technology
- Creating employment and research opportunities for STEM youth passionate about sustainability
- Fostering innovation through real-world projects in hydroponics, agri-tech, and climate-smart farming

Province-Wide Expansion





Let's Connect.

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