

# KANSAS STATE

College of Agriculture

# GEOBAL CHALLENGE

KANSAS YOUTH INSTITUTE APRIL 1, 2022

Registration due: MARCH 4, 2022

www.worldfoodprize.org/kansas



knowledge · innovation · action

# We want YOU to solve the world's greatest challenge: END HUNGER AND POVERTY

No, really. We need to find sustainable solutions to feed our growing population.

#### IT'S COMPLICATED, BUT WE'RE MAKING PROGRESS. WE CAN END HUNGER AND POVERTY BY FOCUSING ON:



#### IMPROVING Human Health



#### PROMOTING ECONOMIC GROWTH



#### INCREASING ACCESS TO EDUCATION AND OPPORTUNITY



#### PROTECTING THE ENVIRONMENT

There have already been significant improvements but we still have a long way to go. There is no shortage of solutions. Explore what's working and what isn't, and use your unique perspective, talents and ideas to help solve the worlds greatest challenge.



#### CALLING ALL Students

We're looking for high school students who:

- Care passionately about the world and want to make it a more just and equitable place for all
- Believe everyone should have access to nutritious food, clean water, education, and a fair income
- Are problem solvers who want to be part of the solution

WHY DOES THIS MATTER? 1 IN 9 PEOPLE DON'T HAVE ENOUGH SAFE AND NUTRITIOUS FOOD



# **TODAY:**



A CHILD DIES FROM Hunger-related causes Every 10 seconds



1/3 OF ALL FOOD ON THE Planet is wasted



1 OUT OF 3 SCHOOLS DO Not have safe water and sanitation

## TOMORROW:

- By 2050, there will be at least 9 billion people on the planet
- In the next 40 years, humans will need to produce more food than they have in the previous 10,000 years combined



#### WHAT IS FOOD SECURITY? QUALITY QUANTITY

Safe, healthy and nutritious food

# Enough food to lead a healthy and active lifestyle

There are three essential components:

#### **AVAILABILITY**

Finances to purchase food near where you live

## WHAT IS THE KANSAS YOUTH INSTITUTE?

The Kansas Youth Institute is a life-changing experience hosted by Kansas State University where students in grades 8-12 engage engage with local leaders and experts on critical global food security challenges, participate in hands-on science activities, and explore exciting ways to make a difference in Kansas and around the world.

Students research issues they care about, and propose their ideas to solve these grand challenges.

# **WHY PARTICIPATE?**

- Earn a \$500 scholarship
- Become recognized as a Borlaug Scholar
- Qualify for the Global Youth Institute, paid USDA fellowships, and International Internships

## **HOW DO I PARTICIPATE?**

- Research a global challenge and write a paper about the problem and your proposed solution
- There is no cost, fee or membership required for the program! Your paper is your ticket to attend
- Register and submit your paper by: March 4, 2022
- Participate in the Kansas Youth Institute hosted by Kansas State University and the World Food Prize Foundation on April 1, 2022

# **QUESTIONS?**

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#### WE ARE THE WORLD FOOD PRIZE

Founded by Dr. Norman Borlaug, a Nobel Peace Prize winner who saved over a billion people from famine and starvation. The World Food Prize celebrates individuals who significantly improve global food security.

Like Dr. Borlaug they are game changers who come from a variety of backgrounds; scientists, policy makers, innovators and entrepreneurs. We want to connect you with these incredible leaders and inspire you to make a difference as well.

Ready to change the world? <b>TSIMPLE STEPS TO</b> <b>WRITE YOUR PAPER.</b>			
CHOOSE A Country	RESEARCH A TYPICAL FAMILY	SELECT A TOPIC	
ANALYZE ITS IMPACT ON FOOD SECURITY	EXPLORE & PROPOSE SOLUTIONS	WRITE YOUR PAPER	
REGISTER For the Youth Institute!			

www.worldfoodprize.org/youth

# choose a COUNTRY

Select a country, territory or independent economy to focus your research on

Please Note: Select a country other than the one you live in.

#### • Anguilla (U.K.)

Caribbean

- Antigua and Barbuda
- Aruba (Netherlands)
- Bahamas
- Barbados
- Bermuda (U.K.)
- Cayman Islands (U.K.)
- Cuba
- Curaçao (Netherlands)
- Dominica
- Dominican Republic
- Grenada
- Guadeloupe (France)
- Haiti
- Jamaica
- Martinique (France)
- Montserrat (U.K.)
- Puerto Rico (U.S.)
- Saint-Barthélemy (France)

#### North America

- Canada
- Mexico
- United States of America

- Saint Kitts and Nevis
- Saint Lucia
- Saint Martin (France)
- Saint Vincent and the
- Grenadines
  - Sint Maarten (Netherlands)
  - Trinidad and Tobago
  - Turks and Caicos Islands
  - (U.K.)
  - Virgin Islands (U.K., U.S.)

#### Central America

- Belize
  Honduras
- Costa Rica Nicaragua
- El Salvador Panama
- Guatemala

#### South America

- Argentina
- Bolivia
- Brazil
- Chile
- Colombia
- Ecuador
- Falkland Islands (U.K.)
- French GuianaGuyana

- Western Europe
- Belgium
- France Germany
- Liechtenstein
- Luxembourg
- Monaco
- Netherlands
- Saint Pierre and Miquelon (France)
- Switzerland
- United Kingdom

#### Northern Africa

- Alger
- Egypt
- Libya 🗸
- Morocco, including Western Sahara
- Sudan
- Tunisia

#### Western Africa

#### • Benin

- Burkina Faso
- Cabo Verde
- Cote d'Ivoire
- Ghana
- 🔍 Guinea
- Guinea-Bissau
- Liberia
- Mali
- Mauritania
- Niger
- Nigeria
- Saint Helena (U.K.)
- Senegal
- Sierra Leone
- The Gambia
- Togo

#### Middle Africa

- Angola
- Cameroon
- Central African Republic
- Chad
  - Democratic Republic of the Congo
  - Equatorial Guinea
  - Gabon
  - Republic of the Congo
- São Tomé and Príncipe

- ParaguayPeruSuriname
- Uruguay

• Venezuela



## **STEP ONE: CHOOSE A COUNTRY**

Use the following pages and questions as a guide to help you write an outline as you explore your country and topic. Need ideas? Resources can be found at: worldfoodprize.org/resources



#### COUNTRY: \_

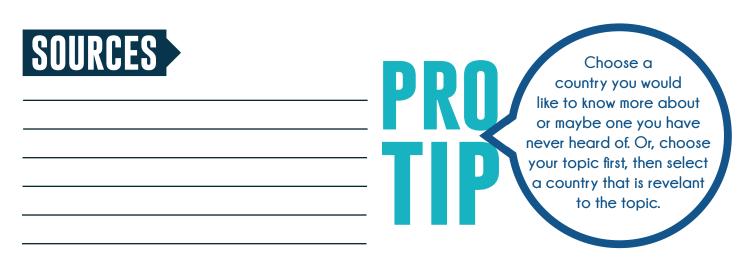
What is the country's population? What percentage are urban and rural?

What type of government and leadership exists?

☐ How much of the land is currently cultivated? What are the major crops and exports?

□ What is the average farm size in your chosen country? For context, what can you compare it to?

□ What is the climate and geography?



**STEP TWO: RESEARCH A TYPICAL FAMIL** 

Describe life for a typical family in your chosen country.



□ What is a typical family size? Describe the dwelling in which they live.

□ What does a typical family diet consist of?

□ Where do families get food and how do they cook it?

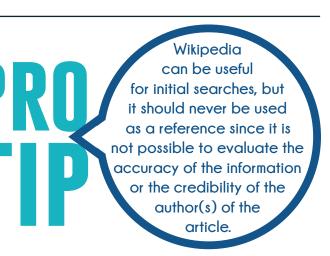
□ What types of jobs do they have and what is the average wage?

Do famillies have access to education and health care? Is it affordable?

Does the family have access to clean water, toilets, electricity, telephones, roads and local markets?

□ What major barriers do typical families face including earning a living and access to nutritious food?





www.worldfoodprize.org/youth

#### **STEP THREE: CHOOSE A TOPIC**

Select a topic (global challenge) to focus your research on. It is important to select a topic that is relevant to your country.



#### **PLANTS**

Utilizing plants to increase and improve food, nutrition, medicine, fibers, fuels and other products

#### **ANIMAL HEALTH**

Protect and improve the health, safety, and quality of livestock, poultry and aquaculture



#### WATER SCARCITY

The lack of available water resources to meet the demands within a region

#### RENEWABLE Energy

Energy created from naturally occurring sources such as water, wind, solar and biofuels

#### CLIMATE Volatility



Adapt agricultural practices and policies to respond to significant changes in the Earth's climate

#### ANIMAL AGRICULTURE



The care and breeding of livestock, poultry and aquaculture

#### SPOILAGE & WASTE

Food that is lost, spoiled or discarded in production

postharvest, processing or consumption



#### SUSTAINABLE AGRICULTURE

Best practices to grow food and fiber for long term environmental, economic and social success



#### WATER & SANITATION

Clean drinking water and adequate sewage disposal to improve human hygiene and health

#### DIETARY **DISEASES**



Disease caused by unhealthy diets and a lack of exercise

#### **POPULATIONS**

The characteristics and movements of a population including urbanization, migration and growth

#### **EDUCATION**

The delivery of knowledge, skills, and information

#### **FOREIGN AID**

Assistance given by one nation to another for humanitarian relief or development efforts



#### MALNUTRITION

Deficiencies, excesses, or imbalances in a person's intake of energy, protein and nutrients



#### CONFLICT

Political, economic, environmental, or social disagreements, violence or armed conflict

#### POLICY & **GOVERNANCE**

The implementation of policies, processes and structures that determine how power is distributed and shared

#### **INFRASTRUCTURE**

The physical structures and facilities critical for the operation of a society such as roads, bridges, power, etc



Infections and illnesses that can be spread from one person to another, or between animals and humans



#### **HUMAN RIGHTS**

Rights that all people are equally entitled to regardless of their nationality, sex, race, ethnicity, religion,

language, etc



#### INTERNATIONAL TRADE

The exchange of capital, goods, and services between countries





#### **STEP FOUR: ANALYZE THE IMPACT** How does your topic impact food security?



□ What is the present status and severity of this topic?

Are trends improving, worsening or staying the same?

□ What contributes to this trend?

☐ How does this topic affect rural and urban populations?

☐ How does this topic affect women and men differently? The elderly? Children?

How does this topic affect marginalized populations? (minorities, refugees, indigenous, etc.)

How does this topic affect the environment?



## **STEP FIVE: SOLUTIONS & RECOMMENDATIONS**

Finding ideas for solutions can be tough. Start by researching what already exists.

#### What are **2-3** solutions that address the challenge

•IN YOUR CHOSEN COUNTRY: what is currently being done or what has been tried in the past? What worked and what could be improved upon? • IN ANOTHER COUNTRY: what has been done to address similar challenges? Would they be appropriate to implement in your country?

# WHAT ARE THE STRENGTHS AND WEAKNESSES FOR EACH OF THESE SOLUTIONS? USE THIS BOX TO OUTLINE THE PROS AND CONS.

SOLUTION	STRENGTH (PROS)	WEAKNESS (CONS)



## **SOLUTIONS & RECOMMENDATIONS**

□ Would these solutions meet all the needs of the population in your country?

□ What solution would you recommend to solve this challenge? Describe the plan of action.

□ Who would manage and lead this project? Examples: The United Nations, World Bank, non-profits, civic organizations, etc.

☐ How could this project be funded?

□ What role do community members, the government, and other organizations play in implementing your plan?

What policies would need to be in place for the project to be successful?

☐ What cultural norms or behaviors need to be considered while developing your plan?

How can this project be sustainable?



## **STEP SIX: WRITE & FORMAT YOUR PAPER**

Now that you have done your research, it's time to bring it all together.

# FORMAT REQUIREMENTS

#### Research papers must be submitted as a Word (.doc or .docx) file and meet the following page format requirements:

- One-inch page margins (top, bottom, left, right)
- Eleven-point font, Times New Roman
- Single-space text, no indentation
- Double space between paragraphs
- Identification in the upper left-hand corner of the first page providing:
  - Student name
  - High school name
  - School city, State/Province, Country
  - Selected country, Topic
  - Essay title (in bold)

Jackson Smith Central High School Arrington, KS, USA India, Malnutrition

India: A Holistic Approach for the Rural Population

- Proofread your paper and edit for sentence structure and proper grammar
- Ask at least three other people to read your paper and give you feedback (consider teachers, mentors, club leaders, friends, and parents)



#### **PLEASE NOTE:**

Your paper will be checked for plagiarism.

Make sure to take the time to analyze and interpret the articles and information you read, and explain them in your own voice. It's important to always be careful when sharing an idea or concept that is someone else's (even if you explain it in your own words), that you properly credit the original source.

For more information on citations and referencing, visit: worldfoodprize.org/resources

# **RECOMMENDED BREAKDOWN**

Your paper should be 2-3 pages in length with a word count of 1000-1500 words, excluding the bibliography.

5% Introduction

20% Country & Family

20% Challenge & Impact

- 50% Solutions & Recommendations
- 5% Conclusion

For great information on how to write a bibliography, check out: Easybib.com, Citationmachine.com or the Purdue Writing Lab at http://owl.english. purdue.edu/owl



#### **BIBLIOGRAPHY PAGE**

Should include at least five sources with in-text citations using the standards set by the Modern Language Association (MLA) or American Psychological Association (APA). Choose one style and use it consistently

## **STEP SEVEN: REGISTER & SUBMIT YOUR PAPER**

All your hard work has paid off! It's time to submit your registration and final paper at: www.worldfoodprize.org/kansas

#### If you have any questions, contact the Kansas Youth Institute Coordinator

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