



GEOBAL CHALLENGE

THE COLORADO YOUTH INSTITUTE APRIL 19, 2019

Registration due: MARCH 22

www.worldfoodprize.org/COLORADO



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 COLORADO YOUTH INSTITUTE?

The Colorado Youth Institute is a life-changing experience at Colorado State University where high school students 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 Colorado and around the world.

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

WHY PARTICIPATE?

- 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 22
- Attend the Colorado Youth Institute at Colorado State University, in Fort Collins, CO on April 19.

BORLAUG SCHOLAR

BORLAUG SCHOLA

QUESTIONS?

Dr. Michael J. Martin Colorado State Coordinator 970-491-6469 michael.j.martin@colostate.edu



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? **TRANSPORT SIMPLE STEPS TO WRITE YOUR PAPER.**

CHOOSE A	
DEVELOPINO	Ì
COUNTRY	

RESEARCH A TYPICAL FAMILY

ANALYZE ITS IMPACT ON FOOD Security

REGISTER For the Youth Institute! EXPLORE & PROPOSE SOLUTIONS WRITE Your Paper

SELECT A

TOPIC

www.worldfoodprize.org/youth

choose a CUUNTRY

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

Please note: The United States, Japan, Germany, The United Kingdom, Italy, France and Canada (the countries in gray) are not eligible as they are the world's most advanced economies.

Caribbean

- Anguilla (U.K.)
- 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)

- 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
 Mexico
- El Salvador Nicaragua
- Guatemala Panama

South America

- Argentina
- Bolivia
- Brazil
- Chile
- Colombia

Western Europe

- Austria
- Belgium Liechtenstein
 - and Miquelon (France)

Saint Pierre

- Luxembourg Switzerland
- Monaco
- Netherlands

Northern Africa

- Ålgeria
- 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

Paraguay

• Peru

• Suriname

• Uruguay

• Venezuela

- Ecuador
- Falkland Islands (U.K.)
- French Guiana
- Guyana



Western Asia

- Armenia
- Azerbaijan
- Bahrain
- Cyprus
- Georgia
- Iraq
- Israel, West Bank,
 - and Gaza
- Jordan
- Kuwait

Rwanda

Somalia

• Tanzania

• Uganda

• Zambia

Zimbabwe

Seychelles

South Sudan

Eastern Africa

- Burundi
- Comoros
- Djibouti
- Eritrea
- Ethiopia
- Kenya
- Madagascar •
- Malawi •
- Mauritius Mayotte (France) •
- Mozambique •
- Réunion (France)

- Lebanon
- Oman

- United Arab Emirates

Central Asia

- Kazakhstan
- Kyrgyzstan
- Tajikistan • Turkmenistan
- Uzbekistan

- Southern Africa
- Botswana
- Lesotho Namibia
- South Africa
- Swaziland

- Qatar
- Saudi Arabia Syria

- Turkey

Yemen

Southern Asia

- Afghanistan
- Bangladesh
- Bhutan
- India
- Iran
- Maldives Nepal
- Pakistan
 - Sri Lanka
- www.worldfoodprize.org/youth

- Malaysia
- Myanmar/Burma

Oceania

- American Samoa (U.S.)
- Australia
- Cook Islands (New Zealand) ٠
- ٠ Fiji

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• French Polynesia (France)

New Caledonia (France)

Northern Mariana Islands (U.S.)

Niue (New Zealand)

Papua New Guinea

Solomon Islands Tokelau (New Zealand)

Pitcairn Islands (U.K.)

Wallis and Futuna (France)

• Guam (U.S.) Kiribati

Micronesia

New Zealand

Nauru

Palau

Samoa

Tonga

Tuvalu

Vanuatu

Marshall Islands

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: _

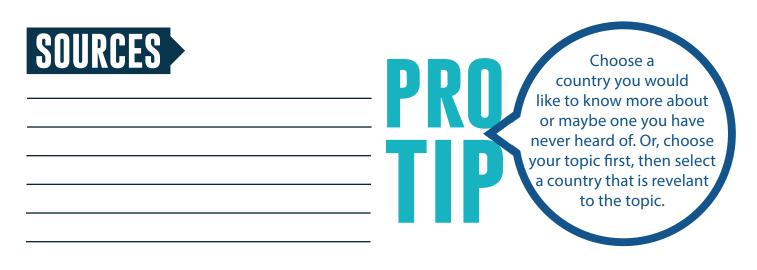
□ What is the country's population? What percentage are urban and rural?

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?

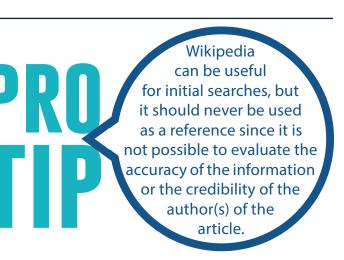
□ What types of jobs do they have and what is the average wage?

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?





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



ANIMAL AGRICULTURE



The care and breeding 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

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

INFECTIOUS

DISEASES

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

HUMAN RIGHTS Rights that all people are equally entitled to regardless of their nationality, sex, race,

ethnicity, religion, language, etc

Infections and

and humans

illnesses that can

be spread from one

person to another,

or between animals



INTERNATIONAL TRADE

The exchange of capital, goods, and services between countries





www.worldfoodprize.org/youth

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
 - Selected country, Topic
 - Essay title (in bold)

Jackson Smith Central High School Lincoln, NE 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 3-5 pages in length with a word count of 1500-2500 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/colorado

If you have any questions, contact the Colorado Coordinator

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