

# SUMMER APPRENTICESHIP PROGRAM (SAP)

KENTUCKY STATE UNIVERSITY

June 23<sup>rd</sup> to July 14<sup>th</sup>, 2024

**All application packages must be received or postmarked by May 25, 2024. Application packages postmarked after the deadline may not be accepted. Incomplete applications will not be considered.**

## Eligibility Requirements:

1. Rising high school junior/senior
2. Interest in STEM (Science, Technology, Engineering, and Mathematics) and related fields such as Agriculture and Environmental Studies
3. A preferred minimum GPA of 3.0

## Applicant Information

First name	Middle name	Last name
Email		
Street		Apt #
City	State	ZIP
County	Phone	
Social Networking	Facebook	Instagram
	Twitter	Other
Race/Ethnicity		

## Personal Information

Gender	<input type="checkbox"/> Female	<input type="checkbox"/> Male	Birthdate (MM/DD)		
Age (by June 23, 2024)		T-shirt Size			
Name of the school you currently attend:					
Grade level completed by June 23 <sup>rd</sup> , 2024		<input type="checkbox"/> 10 <sup>th</sup>	<input type="checkbox"/> 11 <sup>th</sup>		
Expected Graduation Date: Month/Year					
<b>(Roommate requests are accommodated when both individuals mutually request each other)</b>					
If possible, I would like to room with:					

## Parent/Guardian Contact Information

## Alternative Emergency Contact Information

First name	Middle name	Last name
Evening phone		
Day phone		
Cell phone		
Email		

First name	Middle name	Last name
Evening phone		
Day phone		
Cell phone		
Email		



*This program is supported by National Science Foundation Historically Black College and Universities-Undergraduate Program (NSF-HBCU-UP) to promote minority students' participation in STEAM-undergraduate degree programs.*



**Please provide responses to the following prompts.**

**Respond to prompts #1-4 on separate sheets of paper and be sure to include your name on each sheet.**

1. Please list the STEM-related courses you have taken or plan to take, and share your perspective on their importance for your future career goals? (250-word limit)
2. Explain your thoughts on Agriculture, Environment, and Unmanned Aerial Vehicle (UAV) Drone application and their respective roles in achieving food security, maintaining a healthy environment, and sustainable resource management. (300-word limit)
3. Why are you interested in attending KSU's Summer Apprenticeship Program (SAP), and what specific knowledge or skills do you hope to gain from this experience? (200-word limit)
4. List the following you are involved in:
  - a. Any extracurricular activities or clubs (e.g., volleyball, choir, FFA)
  - b. Hobbies (e.g., stamp collecting, rock climbing)
  - c. Community organizations, memberships, and past volunteer work (e.g., 4-H, religious organizations, YMCA)
5. Please rate your level of interest for Experiential Research in the following topics:  
(Rate between 1 and 10, with 10 being most interested and 1 being least interested)

**Agriculture and Environment**

- ☐ Geographic Information Systems (GIS)
- ☐ Coal-Mining and Reclamation Impacts
- ☐ Soil Health
- ☐ Environmental Monitoring
- ☐ Biotechnology
- ☐ Invasive Species Mapping
- ☐ Ecosystem Services and Wildlife Conservation
- ☐ Water Quality and Pollution Detection
- ☐ Analyzing Urban Heat Islands and Green Space

- ☐ Insect and Pest Management
- ☐ Land Cover Change Using UAV/Drones
- ☐ Microbial Contaminants in Food Items
- ☐ Study of Honeybees
- ☐ Detect Environmental Contaminants and Waste
- ☐ Meteorological (Weather/Climate) Studies

**Aquaculture**

- ☐ Aquatic Ecosystems
- ☐ Fish Genetics
- ☐ Aquaponics
- ☐ Identifying Fish Diseases

**Computer Science**

- ☐ Cyber Security
- ☐ Gaming, Entertainment and Simulation
- ☐ Computer Graphics and Visualization
- ☐ Computer Network/Website Design
- ☐ Cyber/Digital Forensics
- ☐ Artificial Intelligence
- ☐ Web Design & App Development
- ☐ Urban Planning and Crime Analysis

**Natural Sciences**

- ☐ Molecular Biology
- ☐ Forensic Science
- ☐ General Biology
- ☐ General Chemistry
- ☐ General Physics

## Teacher Recommendations

Ask your current science and math teachers to complete this section. A typed recommendation can be attached if available, but please ensure signatures are on the application.

**Summer Apprenticeship Program (SAP) at Kentucky State University** is a competitive scholarship program that offers participants college preparation, STEM education and career exploration, and research opportunities. Students should be recommended if they are motivated and interested in experiential STEM learning and research.

**Comments** (to be completed by a **Math or Science teacher** that can attest to your preparedness in the STEM fields)

Teacher Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Teacher Printed Name, Phone, and Email \_\_\_\_\_

**Comments** (to be completed by **any teacher or administrator** that can attest to your work ethic and development as a student)

Teacher Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Teacher Printed Name, Phone, and Email \_\_\_\_\_

## School Transcript

Enclose your latest official transcript, covering all coursework through the first semester of this year, and have your Guidance Counselor specify the following:

Cumulative GPA \_\_\_\_\_

(Note: If your school uses a grading system other than the 4.0 scale, an explanation of the method must accompany the official transcript).

Counselor Name (printed) \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Counselor Email: \_\_\_\_\_

## How did you hear about our program?

\_\_\_ Counselor or Teacher \_\_\_ KSU website \_\_\_ Email \_\_\_ Friend \_\_\_ Church \_\_\_ Recruiting Event \_\_\_ KSU recruitment activity

Prior participant (in KSU youth programming): Program(s) \_\_\_\_\_ Year(s) Attended \_\_\_\_\_

Other sources (please specify) \_\_\_\_\_

## Parent/Guardian Consent

I authorize of my son/daughter to submit this application for the KSU Summer Apprenticeship Program. I understand participants are selected on a competitive basis, so not everyone will be accepted for the program.

Parent Signature \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

## Applicant Signature

Applicant Signature \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Submit to by email to [buddhi.gyawali@ksu.edu](mailto:buddhi.gyawali@ksu.edu) or mail to:

**Dr. Buddhi Gyawali**

**Director of SAP and Professor of Geospatial Applications**

**400 East Main Street**

**Cooperative Extension Building Room 225**

**Kentucky State University, Frankfort, KY 40601**

**This institution is an equal opportunity provider.**