SUMMER 2021 GENCYBER CAMP

ADVANTAGES FOR STUDENTS

- Offered at no cost!
- A small-sized computer (Raspberry Pi) kit
- Participants will join from the comfort of their homes using their own computers
- Instruction and mentorship from IUP faculty and other experts!
- Skills and knowledge for a growing career field!

ADVANTAGES FOR TEACHERS

- Offered at no cost!
- $750 stipend will be to awarded to each teacher participants after completing all program requirements.
- ACT 48 Credits (30+ hours based on actual attendance) will also be given
- Multidisciplinary cybersecurity teaching skills, and modules to be used in class!

HOW TO APPLY

Applications are accepted online only. To apply or view other important information, please visit:

www.iup.edu/iupgencyber

CAMP DATES

Combination Camp
August 2 to 6, 2021

PROGRAM DIRECTORS

Dr. Waleed Farag, Director, IUP Institute for Cybersecurity and Professor of Computer Science

Dr. Soundararajan Ezekiel, Professor of Computer Science

Dr. Xinwen Wu, Associate Professor of Computer Science

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IUP GENCYBER

THE FUNDED GRANT

CAMP PROGRAM SUMMARY

SUMMER 2021 PROGRAM

Gen Cyber is a national initiative that is supported by the National Science Foundation and the National Security Foundation. This program has the following objectives:

- Increase interest in cybersecurity careers and diversity in the cybersecurity workforce of the nation

- Help all students understand correct and safe on-line behavior.

- Improve teaching methods for delivering cybersecurity content for K-12 curricula

Under the leadership of Dr. Waleed Farag, grant PI and the director of the IUP Institute for Cybersecurity, IUP, along with a selected handful of national universities, has been awarded funding to hold a combination summer camp for middle and high school students and teachers in summer 2021.

This funded project will focus on fostering and sustaining a strong cybersecurity culture in high and middle school students and teachers in Pennsylvania and beyond through a holistic approach. The combined camp will start by a general introduction to fundamental cybersecurity concepts then delve into the technicality of the field. Topics covered include programming, social engineering, social media security, ethics, cybersecurity career, and network security.

This project will host a FREE (no cost to participants), five-weekday day-camp in summer 2021. Instruction will be delivered by a team of professors and high/middle school teachers with numerous backgrounds but established expertise in cybersecurity teaching, research, and K-12 education. Camp will include:

- Upon completion of camp, participants will have a strong understanding of cybersecurity in addition to mastering basic skills that help them be safer online.

- 65 projected participants. 50 in the student group and 15 in the teacher group.

- 90 teaching hours proposed (30 for each group at a rate of six hours per day).

- An engaging content delivery approach that includes direct instruction, group activities, structured discover, and hands-on laboratory.