

GER²I Summer Residential Camps 2023

Programs for students who
have just completed grades 5-12



College of Education

IN ASSOCIATION WITH
Purdue Honors College

HONORS COLLEGE AND RESIDENCES

www.purdue.edu/GERI

About

The Gifted Education Research and Resource Institute

The Gifted Education Research and Resource Institute (GER²I) at Purdue University is an innovative center dedicated to the discovery, study, and development of human potential. Founded by John Feldhusen in 1974, GER²I's mission is holistic development of giftedness, creativity, and talents among individuals throughout their lifespan. This is accomplished through enrichment programs for gifted, creative, and talented youth; graduate programs for future scholars and leaders; professional development and coursework for educators of gifted, creative, and talented students; and cutting-edge research in psychology and education related to giftedness, creativity, and talent development. GER²I's work encompasses:

- **Researching gifted education and the psychology of talent development**
- **Educating professionals from around the world to promote the development of gifted, creative, and talented individuals**
- **Providing services and special programs for gifted and talented individuals and their families**



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 Purdue Gifted Education Research and Resource Institute

 @PurdueGERI

 Purdue GER²I

 PURDUE GER²I

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What makes GER²I

Summer Residential Camps *so great!*

GER²I has been serving gifted, creative, and talented students since its founding in 1974 and hosting summer residential enrichment programs since 1977. Every summer, students like you come to Purdue University and experience programs designed to stimulate their imaginations and expand their abilities. We also offer a variety of recreational activities and a chance for you to get a taste of college life as you live on campus in Purdue's residence halls.

Here's what you'll experience at GER²I Summer Camp:

Intellectual Challenge - GER²I classes are small, challenging, fast-paced, and interactive.

Talented and Caring Staff - Our teachers thrive on sharing their knowledge and experience with students.

Outstanding Facilities - Purdue is a world-class research university, and GER²I students have the use of state-of-the-art laboratories, computing facilities, and a variety of libraries.

Friendships - GER²I attracts a diverse group of gifted, talented, and creative people from all over the world! You will find friends who share your interests and love of learning.

Personal Growth - With supervision, guidance, and support from the GER²I staff to help you adapt and thrive, you will live in residence halls, learn in university classrooms and labs, and take advantage of Purdue's cultural and recreational facilities, just like college students.

Fun - GER²I camp counselors make time outside of class exciting through activities like a night at the movies, basketball, bowling, scavenger hunts, games and tournaments, trivia, and field trips.

"The people all around the camp with different experiences and life views made it easy to interact with our peers and make good friends."



COMET

July 2-8 and July 9-15

For students who have completed grade 5 or 6

Comet students may commute daily or stay in the residence hall.

COST PER ONE-WEEK SESSION:

Commuter - \$1,000, Residential - \$1250

See the Financial Information section on page 15 for multiple session, sibling, Purdue employee, and refer-a-friend discounts.

Early Bird Discount!

Register by February 15 and receive a 5% discount!

Please select a class for the session(s) you would like to attend.

course descriptions

COMET I: July 2-8

Crime Scene Investigation (C.S.I.)

Explore the skills used by criminal investigators to solve crimes through hands-on activities in observation, fingerprint analysis, DNA, "blood" spatter, and handwriting analysis. Build critical thinking and problem-solving skills that will enable you to investigate crimes and determine the appropriate methods needed to crack the case.

Curious and Creative Thinking

Spark your creative and divergent thinking and rekindle your ability to be a deeply curious thinker by learning strategies that stretch these capacities of your brain. We will learn why curiosity and creativity are not fixed abilities and how *everyone* can become more curious and more creative.



Fun Filmmaking

Positions, everyone! Lights, camera, action! Sure, we know the stars in front of the camera, but what about the masterminds behind it? Movie producers and directors tell stories in compelling ways that have a lasting effect on their audiences. We'll explore the fundamentals of filmmaking using recording and editing equipment to tell stories that will wow your GER² camp audience!

Science of Sound with Synthesizers

What's the scariest sound you've heard in a movie or the most amazing combination of sounds you've heard in a soundtrack? Let's explore the intersections of sound and science using Eurorack-style analog synthesis modules to produce unique electronic sounds and music using software used by sound technicians in the field today.

To Infinity and Beyond!

If you're interested in learning more about our universe to infinity and beyond, this course is for you! Bring your inquisitive, sharp, and ambitious mind to discover the unending possibilities beyond our atmosphere through the foundations and fundamentals of space science. We might even predict the future for earthlings!



course descriptions

COMET II: July 9-15

Crime Scene Investigation (C.S.I.)

Explore the skills used by criminal investigators to solve crimes through hands-on activities in observation, fingerprint analysis, DNA, "blood" spatter, and handwriting analysis. Build critical thinking and problem-solving skills that will enable you to investigate crimes and determine the appropriate methods needed to crack the case.

Game Genius (a.k.a. Mathematical Mastermind)

Game design is fast becoming one of the most popular occupations in our world today, but what does it take to create an awesome game? We'll use measurement, algebra, arithmetic knowledge and skills, 3D printing, and design elements to develop and play games that bring your imagination to life!

It's Not Rocket Science! Oh, Wait, Yes, It Is!

Did you know that a fully assembled, NASA rocket can be 184 feet tall and can weigh 4.5 million pounds?! Think about how much force it takes to lift that rocket into our atmosphere and beyond! Let's explore the forces and other scientific principles behind successful rocket launches and landings (on a much smaller scale, of course).

Science of Sound with Synthesizers

What's the scariest sound you've heard in a movie or the most amazing combination of sounds you've heard in a soundtrack? Let's explore the intersections of sound and science using



Eurorack-style analog synthesis modules to produce unique electronic sounds and music using software used by sound technicians in the field today.

The Invisible World of Bacteria and Immunology

Not to gross you out, but did you know your body contains more bacteria than cells?! But never fear! Some bacteria are friendly while other bacteria need to be captured and destroyed before they make us sick. Let's think like immunologists as we investigate how vaccines boost our immune system to protect us against harmful bacteria the instant they enter our bodies!

Virtual World Tour

Let's travel the world in five days! Using advanced technology, we will virtually explore the most amazing destinations across the globe, including the people, wildlife, and plants that live in these incredible places! Share your discoveries by creating a product to share our travels with friends and family.



STAR

July 2-15 and July 16-29

For students who have completed grade 7 or 8

COST PER TWO-WEEK SESSION:

Residential - \$2500

See the Financial Information section on page 15 for multiple session, sibling, Purdue employee, and refer-a-friend discounts.

Early Bird Discount!

Register by February 15 and receive a 5% discount!

Please select one morning class and one afternoon class for the two-week session(s) you would like to attend.

course descriptions

STAR I AM: July 2-15

Art and Science of Color and Design

Did you know that science has uncovered the ways in which color affects daily decision-making and moods? What does it mean to choose a "favorite" color, and what does that color say about you? After learning about the science of color, we'll analyze the function of color in design and art.

From Giant Leaps to Quantum Leaps

You've heard of Purdue's own Neil Armstrong's giant leap, but have you heard of a *quantum* leap? Let's explore quantum by collecting data that provide evidence for the concept of probability in the decaying process of Carbon-14 atoms to Nitrogen-14 atoms and use quantum randomness and a quantum random number generator to create a unique piece of art that uses data coming from a real quantum lab at Australian National University (ANU).

Leadership 101

Do you want to make a difference in your community, become the CEO of a multi-national company, or hope to become the president of a country one day? If so, you are going to need a toolbox of essential skills all leaders must develop. Let your voice be heard through transformational leadership training activities designed to help you discover the leader inside of you.

The Future Is Electric!

From electric bicycles to electric cars, electricity has revolutionized the way we travel. What's next?! Let's explore electrical engineering through hands-on activities and interactive lessons with LEDs, sensors, and more. Bring your ideas and let's light up your future projects!

The Wonder and Magic of Chemistry

Chemistry is all around us! Let's celebrate the wonder and magic of chemistry as it affects our everyday lives. With our buddy, the MOLE, we'll explore foundational concepts like the organization of the periodic table, chemical equations and reaction types, and the importance of an atom's nucleus in atomic power.

course descriptions

STAR I PM: July 2-15

A Literary Window to the World

It would be impossible to learn every language in the world and read every piece of literature in one lifetime, but we can read classic literatures in English, original or translated, to gain a holistic knowledge of how our world came to be. Join us as we read excellent literatures from India, Nigeria, Korea, and Brazil that will help us better understand our global society.

Acting Up and Acting Out: Constructing Cultures of Peace

Bring your unlimited imagination to this active, spontaneous, unscripted course featuring theatre games, pantomime, role plays, simulations, storytelling, and improvisation to challenge your thinking about freedom, justice, and peace. Together, we'll construct a vision of a better world where peace is not just an idea, but courageous action.

Bienvenue à Paris!

Have you always dreamed of visiting Paris? Well, at GER²I camp, we're bringing Paris to you! Bring your creativity and get ready for some *joie de vivre*! Learn to cook the best French desserts during cooking classes, take a ballet class like a pro from the Palais Garnier, and learn more about the French language, history, and geography. No prerequisite knowledge of the French language required.

Sleepy Science

We all sleep, and we know our bodies need it, but what's the science behind why sleep matters? We'll use scientific methods to better understand sleep and how important it is to how we feel, grow, learn, and work, and even how sleep can prevent serious medical issues, like strokes and heart attacks.

STEAM LABS™

Students, engineers, artists, and hobbyists around the world design and build Rube Goldberg-style machines to satisfy society's fascination with these creative contraptions. Apply the engineering design process to construct STEAM Machines (i.e., chain reaction machines that run on STEM and Art concepts) using everyday objects and technology such as motors, sensors, and micro-controllers. Gain experience with systems thinking and multi-team collaboration as you learn real-world engineering skills and explore pathways to engineering careers.

course descriptions

STAR II AM: July 16-29

Francophone World Tour

Parlez-vous français? If so, you'd be among the 300 million Francophones (people who speak French) around the globe! French culture, customs, and language have influenced almost every country in the world, so let's explore these historic, global spaces to learn how to cook the best French dishes and paint like the Impressionists! No prerequisite knowledge of the French language required.

Let's Talk Science

In an increasingly technological world, scientists need to know both the science of their specialty and how to effectively communicate their work to fellow scientists and the public. Our audience determines how we "talk science." In this course, you will be introduced to digital media research skills and empathy-building experiences to create informative presentations that different audiences will understand and enjoy.

Marvels of Chemistry

From fueling up the sun to ice floating in water, chemistry is everywhere—even inside us! Marvels of Chemistry will astound you as you look at the mundane through the lens of chemistry. Return home with an unlimited supply of fun facts to wow your family and friends.

Music and Coding

Did you know that music, math, and computer programming have a lot in common? Let's explore these intersections as we learn about digital sound synthesis, signal processing, and algorithmically generated music. Then, apply what you've learned to create your own music using the Supercollider programming language.

Optimize Your Talents with Six Sigma

Successful entrepreneurs like Bill Gates and Jeff Bezos have certain things in common. They are creative and innovative, they take risks, and they persevere in the face of setbacks. The Six Sigma program was designed to help the rest of us achieve peak performance through identifying our strengths, taking strategic risks, and turning setbacks into successes. Join us as we practice Six Sigma techniques using fun games and puzzles and apply Six Sigma for future success.



course descriptions

STAR II PM: July 16-29

Electrochemistry—You Can't Escape It!

Electrochemistry drives our everyday lives—it powers our cars and more! Through hands-on experiences, we'll learn how electrochemistry makes everyday things work. We'll conduct experiments like professionals perform in their labs and even design our own research projects.

Entrepreneurship Basics

Did you know that the youngest entrepreneur in the U.S. is a 7-year-old from Louisiana?! Did you know that Purdue University has ranked in the Top 10 of the most innovative universities in America for the last five years?! Entrepreneurship and innovation are the new currencies of the job market, and you don't have to be an adult to use them. Bring your innovative ideas, and let's take an entrepreneurial journey where you'll learn how to develop, pitch, and sell the products you've designed.

Exploring German Language and Culture

Did you know that *Gesundheit* means health? Have you ever made Black Forrest Cherry Cake? Let's have fun exploring the German language and culture in this fast-paced course where we'll learn practical German expressions, discover classic German legends, sing popular German songs, and experience German culture through virtual tours and creative activities. And, yes, we'll make and enjoy the world-famous German Black Forest cherry cake!

From Giant Leaps to Quantum Leaps

You've heard of Purdue's own Neil Armstrong's giant leap, but have you heard of a quantum leap? Let's explore quantum by collecting data that provide evidence for the concept of probability in the decaying process of Carbon-14 atoms to Nitrogen-14 atoms and use quantum randomness and a quantum random number generator to create a unique piece of art that uses data coming from a real quantum lab at Australian National University (ANU).

Psychological Anthropology: History meets Psychology

How does human behavior shape history, and how does history shape future human behavior? If a decision to go to war is made by a country's leaders, why can't these leaders make decisions to keep peace instead? How do peoples' values with regard to human life, patriotism, and freedom determine whether they'll fight in a just (or unjust) war? These important questions will guide our exploration of major global conflicts, including the Holocaust, the Rwandan Genocide, and the Syrian War, to understand how social psychology influences human action and to identify human conditions that incite violence.

STEAM LABS™

Students, engineers, artists, and hobbyists around the world design and build Rube Goldberg-style machines to satisfy society's fascination with these creative contraptions. Apply the engineering design process to construct STEAM Machines (i.e., chain reaction machines that run on STEM and Art concepts) using everyday objects and technology such as motors, sensors, and micro-controllers. Gain experience with systems thinking and multi-team collaboration as you learn real-world engineering skills and explore pathways to engineering careers.

PULSAR

July 2-15 and July 16-29

For students who have **completed grade 9, 10, 11 or 12**

COST PER TWO-WEEK SESSION:

Residential - \$2500

See the Financial Information section on page 15 for multiple session, sibling, Purdue employee, and refer-a-friend discounts.

Early Bird Discount!

Register by February 15 and receive a 5% discount!

Please select one morning class and one afternoon class for the two-week session(s) you would like to attend.

course descriptions

PULSAR I AM: July 2-15

All About Skyscrapers

Have you ever been in awe of skyscrapers? Did you know that high-rise buildings "behave" in predictable ways? Let's explore some of the most magnificent engineering marvels in the world, including the underlying concepts and structural systems of their designs. Then, challenge your classmates to design and build skyscrapers that push the limits of creativity, design, and stability while also begin safe.

Art and Science of Color and Design

Did you know that science has uncovered the ways in which color affects daily decision-making and moods? What does it mean to choose a "favorite" color, and what does that color say about you? After learning about the science of color, we'll analyze the function of color in design and art.

Brainiacs Unite!

Want to be a neuroscientist? Let this be your first giant leap! Using a number of mini experiments and interactive activities, we'll explore many aspects of neuroscience, including brain structures and functions, the nervous system, brain scans, and neurological disorders.

Game Theory and Global Politics

We need gifted leaders like you to promote world peace and international cooperation. Learn and use game theories such as Nations as Actors, Resource Wars, and Hard Power vs. Soft Power to understand how and why nations make decisions on foreign policy. Apply these principles to current events and to your own international policy strategy through playing strategic games.

Launching Codes

Modern physics depends on the use of powerful computers to solve problems that cannot be solved by hand, but these programs must be written by someone. Join us for an out-of-this-world exploration of coding and how it translates to astrophysics. Challenge your coding skills by writing a numerical simulation of planets orbiting around a star.

Think Like an Engineer

Are you curious about solving your day-to-day problems innovatively? In this course, you will learn, explore, and utilize the five stages of the Design Thinking Process to solve everyday problems. Challenge and explore your creativity with hands-on projects. Then, analyze, prototype, and test your innovative solutions from societal, cultural, and ethical perspectives. Don't just think; let's bring your ideas to life!



course descriptions

PULSAR I PM: July 2-15

Be Our Guest

In the next 9 years, approximately 23% of new jobs will be in leisure and hospitality! The amazing world of Hospitality Management awaits you at this year's GER²I camp! From restaurants and hotels to sporting events and cruises learn about a wide range of career opportunities and have fun with hands on practice to gather information about these areas and more!

Design & Prototyping of Smart Toys and Robots

Build upon your knowledge of electronics, programming, sensors, and design to create smart toys and robots. Create technologies you control from your cell phone using everyday recyclables, circuits, and more, and work in collaborative teams to design and build a creative final project. We'll also explore the Internet of Things (IoT), the ever-growing network of physical objects for internet connectivity. If you're serious about engineering and technology, the skills you learn and the products you create at GER²I will be especially useful when applying for engineering and technology-based college programs.

Engineers Solving Physiological Problems

Curious about how biomedical engineers solve human health problems? In this course, we'll learn about how systems within the human body function and how common diseases affect these systems. You will then get to use engineering tools and principles to design your own solution to a human health problem.

Getting to the Root of the Problem

When animals or humans need something, they usually move to get what they need. Plants are rooted in place, so how do they meet their needs? Did you know that a plant looks, tastes, or grows a certain way on purpose?! Let's study the fascinating ways plants respond to their environments, from daily to seasonal to long-term fluctuations in the soil, water, and atmosphere, and discover what they must teach us about adaptability.

Serious Gaming for the 21st Century

Did you know that "serious gaming" refers to any game that does more than simply entertain? Exercise your teamwork, problem-solving, and goal-directed muscles as you engage in competitive and collaborative electronic or tabletop games with a greater purpose. Consider how serious gaming can enhance skills and future career possibilities in computer game technology, media and communications, and education.

Teaching Old Computers New Tricks

Have you ever been amazed with how a robot analyzes a situation and makes an appropriate response? Can computers see, read, and problem solve better than we humans can? What if I told you that a blind person can see with a computer's eyes?! Let's test our computer know-how through daily challenges using an interactive Jupyter Notebook, Python coding, and scratchpad to prove that computers can solve real-life problems when humans "teach" them how.

course descriptions

PULSAR II AM: July 16-29

Be Our Guest

In the next 9 years, approximately 23% of new jobs will be in leisure and hospitality! The amazing world of Hospitality Management awaits you at this year's GER2I camp! From restaurants and hotels to sporting events and cruises learn about a wide range of career opportunities and have fun with hands-on practice to gather information about these areas and more!

Brainiacs Unite!

Want to be a neuroscientist? Let this be your first giant leap! Using a number of mini-experiments and interactive activities, we'll explore many aspects of neuroscience, including brain structures and functions, the nervous system, brain scans, and neurological disorders.

Leadership 101

Do you want to make a difference in your own community, become the CEO of a multinational company, or become the president of a country one day? If so, you are going to need a toolbox of essential, well-developed skills all leaders must possess. Participate in interactive scenarios and other activities that will launch you on a journey to discover the leadership potential inside of you.

Music and Coding

Did you know that music, math, and computer programming have a lot in common? Let's explore these intersections as we learn about digital sound synthesis, signal processing, and algorithmically generated music. Then, apply what you've learned to create your own music using the Supercollider programming language.

Optics! The Physics of Light

The presence of light seems simple, but the nature of light has perplexed physicists for centuries. Famous scientists including Newton and Einstein have contemplated the nature of light, but their experiments often yielded more questions than answers. Now it's your turn to perform your own experiments, draw your own conclusions, and finally answer the question "What is light?"

Prerequisites: Algebra and calculus

Sleep Science as Health Science

Our bodies require sleep, but sometimes we don't get enough *healthy* sleep at night. Join us as we draw from the fields of public health, medicine, and psychology to learn more about why sleep matters and about the scientific methods we use to prove that sleep science is health science.

course descriptions

PULSAR II PM: July 16-29

Creative Writing Workshop

Explore the realms of creative writing in this hands-on workshop! Learn the various techniques used in fiction, creative nonfiction, and poetry We'll brainstorm, free-write, edit, peer review, and share our stories as we try out different creative methods and use techniques professional writers use to improve and amplify their writing skills. Let's raise our voices to write amazing stories from our own experiences and imaginations!

Design & Prototyping of Smart Toys and Robots

Build upon your knowledge of electronics, programming, sensors, and design to create smart toys and robots. Create technologies you control from your cell phone using everyday recyclables, circuits, and more, and work in collaborative teams to design and build a creative final project. We'll also explore the Internet of Things (IoT), the ever-growing network of physical objects for internet connectivity. If you're serious about engineering and technology, the skills you learn and the products you create at GER2I will be especially useful when applying for engineering and technology-based college programs.

Engineers Solving Physiological Problems

Curious about how biomedical engineers have solved human health problems? In this course, we'll learn about how systems within the human body function and how common diseases and problems affect these systems. Then you'll use engineering design principles and tools to design your own solution to a human health problem you've selected.

If You Give a Scientist a Cookie...

Why do apples turn brown? Why does Swiss cheese have holes? Why is sourdough bread sour? Food Science can answer all these questions and more with chemistry, microbiology, and many other disciplines. Let's think like food scientists as we cook, test, and of course EAT our science experiments!

Physics Without Math? Well, almost!

Ever wondered how electric currents produce magnetic fields? How light refracts through lenses? What is $E=mc^2$? What is the aerodynamics behind airplanes? Let's understand the behavior of objects around us and demystify the causes of some common phenomena. Understand different pillars of nature (mechanics, electromagnetism, thermodynamics, quantum physics, etc.) by conducting exciting experiments that will challenge us to perceive nature differently!

Serious Gaming for the 21st Century

Did you know that "serious gaming" refers to any game that does more than simply entertain? Exercise your teamwork, problem-solving, and goal-directed muscles as you engage in competitive and collaborative electronic or tabletop games with a greater purpose. Consider how serious gaming can enhance skills and future career possibilities in computer game technology, media and communications, and education.



Students say:

"I loved my Leadership 101 class. This class has helped me develop my natural leadership skills. You never know who is going to help you in life and take you far, and GER²¹ is a program that can help you get there!" - **Ajada W., Memphis, TN**

"I love seeing all of my friends, making new friends, and meeting people from other countries. I look up to all the counselors. They make each year fun. .they bring new things every year, and they're kind of like my family. They seem like my family!"

- **Bella N., Onamia, MN, HOPE+ Scholar**



Parents say:

"My son's experience as a student and Counselor-In-Training at GER²¹ Summer Residential Program seems to have been more than we ever could have expected. He's come home a more focused yet outgoing young man. He's learned leadership, empathy, and perseverance in ways I'd never have imagined, and his outlook on his education has taken on a new enthusiasm. In six summers, GER²¹ helped sculpt a very promising future for a pretty deserving kid."

- **Cathie A., Lowell, IN**

Teachers say:

"I believe learning should be challenging, but it should also be fun. GER²¹ gives me the opportunity to unleash my creativity in developing courses that won't be available in the regular classroom (like "World of Spies: Keeping Secrets" and "Become an 'Escape Room Master'"), showing connections across a broad spectrum of topics within a specific framework. The staff and people behind the scenes are amazing, and my children can attest to their own incredible experience in this top-notch program." - **Sheree B., Past Winner, GER²¹'s Sidney Marsh Moon Teacher Award**

"My favorite teaching moments are those beyond the traditional classroom. Purdue's GER²¹ program is especially terrific because the students are all eager to learn and embrace challenges and the amount of growth we see in a short time is so rewarding!"

- **Jordan W., Past Winner, GER²¹'s Sidney Marsh Moon Teacher Award**



Camp Counselors say:

"GER²¹ Summer Residential is a wonderful program that allows students from diverse backgrounds to connect and learn from one another. I always look forward to seeing new friendships forming and hearing about all the great things they learn while here, and even learning some new things myself. I'm looking forward to this year's camp!" - **Jesse V., Past Winner, GER²¹'s Douglas Sprenkle Counselor Award**

"There are many things I have loved about working with GER²¹'s Summer Residential Program, but most of all I appreciate the inclusivity felt at camp. Gifted students from many diverse backgrounds, experiences, and cultures come together not only to learn about their chosen topics but to learn about each other and form lasting friendships (and, of course, have a great time!). It is truly a special experience."

- **Crystal T., Past Winner, GER²¹'s Douglas Sprenkle Counselor Award**

Program Coordinators say:

"Our program is known for diversity. This diversity transcends locations and races. We take pride in the fact that our program actively promotes the inclusion of LGBTQ and twice-exceptional learners. Many of our students and staff describe GER²¹ as a safe space and find it their home. We believe not only in physical integration but also in psychological integration. We truly are one GER²¹ family!"

- **Aakash Chowkase, Former Program Coordinator**

"To me, GER²¹ is a place where everyone is welcomed. At GER²¹ Summer Residential Camp, as a previous counselor, assistant coordinator, and coordinator, I was privileged to meet and work with students from all over the world. I believe that the camp and students touched and shaped my life positively. The camp environment also showed me how this unique experience helps students reach their goals."

- **Abdullah Tuzgen, Former Residential Life Coordinator**



Welcome to the

PURDUE HONORS COLLEGE

The Purdue Honors College opened its doors for GER²¹ campers in July 2018. Its outstanding facilities bring campers closer to a hub of experts and researchers who partner with GER²¹ to drive their futures forward!

Classrooms, Labs, and Technology

The Purdue Honors College features large classrooms designed for active learning. These spaces will be used for large-scale projects and special classes featured at GER²¹ Summer Residential.

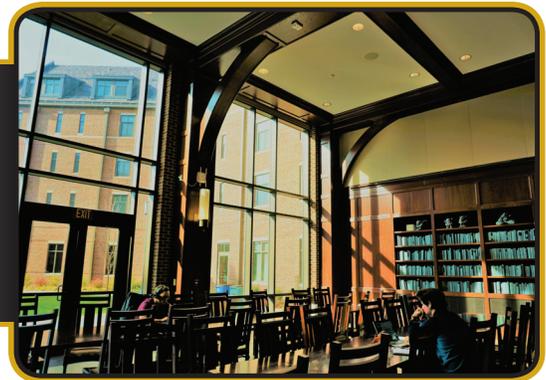


Dormitories

Students will stay in the Honors College and Residences, giving them fast access to their classrooms and the world of Purdue. The Honors College Residence Hall houses two, three, or four campers per room, with student lounges on every floor for small group activities and GER²¹ games!

Honors Hall

Honors Hall will function as the center of GER²¹ activity. Students will meet here for check-in, evening activities, and special events such as Global Gala!

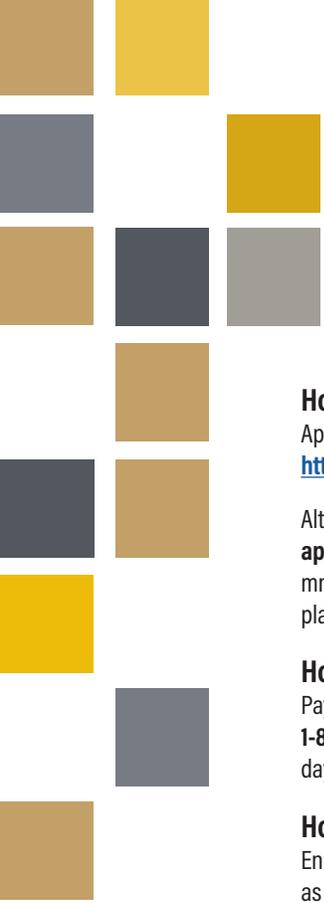


The Honors Community

The Purdue Honors College has an international reach and welcomes students from all backgrounds. Campers will get a taste for college life in a close-knit community of scholars and researchers while having a blast at GER²¹ Summer Residential!

Join us this summer!





FAQ

How do I apply online?

Applying online is our preferred method of registration unless applying with a group. Students will register through <http://www.purdue.edu/conferences/GER2ISummerRes2023>. Registration opens February 1st.

Although browser cookies may save your incomplete application for up to one week, **we recommend completing the application in one sitting to ensure your submission is received.** Contact Purdue Conferences at 1-866-515-0023 or mnixonpa@purdue.edu for registration questions. You must submit your application and non-refundable application fee for your place to be reserved in class.

How do I make a payment over the phone?

Payment is always processed through the Purdue Extended Campus department. Their phone number for credit card payment is **1-866-515-0023**. Please mention that you are a GER²I camper, and they will look up your account information. Allow two business days after submitting your application before calling this number to allow for registration processing.

How English proficient do I need to be to attend GER²I Summer Residential?

English Language Learners will benefit the most from Summer Residential when they can understand a spoken conversation, as many of our classes are discussion and team-based. We judge English proficiency through the application essay, and our teachers have a basic understanding of how to accommodate. Access to a translator is not guaranteed. We ask that campers with limited English proficiency make a proactive effort to engage in class, with their peers, and with faculty and staff in English. Those campers will find that they can form great friendships as long as they are willing to give their best effort.

My child has mental, physical, or dietary challenges, can they still participate?

We are committed to making our programs accessible to twice-exceptional youth (campers with gifts and talents as well as a diagnosed disability). Although our camp counselors are caring and proactive professionals serving gifted and talented learners, they may not have expertise in your child's special needs. Campers walk to class and dining daily, and we estimate that our campers walk 6 - 8 miles daily. Please consider these factors if your child requires extensive medications, behavioral intervention, or has physical limitations. GER²I reserves the right to determine whether we are able to provide needed accommodations and/or supports on a case-by-case basis.

If I am an international student, what class visa do I need?

You will need a non-immigrant B-2 visa. If your country is under the approved visa waiver program for the United States, you will need an Electronic System for Travel Authorization (ESTA) on file. As soon as possible after your successful registration, email geri@purdue.edu to request an official invitation letter from us to show to the visa office and border services.

Will I need clothes to go swimming?

Swimming is an optional activity for all campers. Below-knee trunks for boys and one-piece swimsuits for girls are required by the Purdue CoRec for swimming attire.

Will I need special clothes for classes with labs?

Long pants and closed-toe shoes are required for Purdue science lab classes. We recommend closed-toed shoes, long pants, and long hair to be secured for science and engineering classes. Campers who have registered for lab classes will be reminded about this requirement before camp begins.

How much additional cash will my child need?

Please bring as few valuables as possible. We recommend \$40 per week for additional snacks and souvenirs. We discourage students from bringing tablets and laptops as computers are provided. Students who would like to bring valuable musical instruments for Global Gala may choose to store their instrument in their counselor's room, so that they are locked away while not in use.

PROGRAM Details

No-Show Policy - Students who register for the program but do not attend will be charged the full tuition amount unless we receive a cancellation request in writing two weeks before the start of the camp.

Accommodations

- **Facilities** - Students live in residence halls on the safe, friendly West Lafayette campus of Purdue University. Centrally located between students' classes, libraries, computing centers, and recreational facilities, the Honors College residence halls are fully air-conditioned and easily accessible to students with physical disabilities.
- **Roommates** - Each participant will be paired with 1-2 roommates as available. We believe that campers enjoy a richer experience and make new friends more easily when they lodge with someone they have not met before; therefore, roommate requests are **NOT** accepted unless your child has specific health or emotional needs. Please email geri@purdue.edu if you believe you fit this category.
- **Check In/Check Out** - Campers will check in at the Honors College, 1101 3rd Street, West Lafayette, IN 47906, between 10:00 AM and 2:00 PM, Eastern Standard Time, on the Sunday their program begins. Comet campers who commute daily should attend registration and their first class meeting on Sunday evening from 7:00-9:00 PM. On the final Saturday of camp, Parent-Teacher Conferences will be held at the Honors College from 9:00-10:00 AM followed by a closing ceremony. Check out is no later than 11:30 AM on the final Saturday.
- **Social Life** - An enjoyable social experience is just as important as the academic learning, and the Honors College residence hall will be the social hub of GER²¹ Residential Summer Camp. Lounges and common areas give students places to play music and games, watch movies, share a snack, read a book, collaborate on projects, or even do their laundry. Our friendly, experienced counseling staff works hard to create an environment in which all students feel safe, comfortable, and right at home. Students attending over Independence Day, July 4, will have the opportunity to see the local fireworks display.
- **GER²¹ Global Gala and Talent Showcase** - GER²¹ campers come from all over the world and from many different cultures. We encourage you to share your culture with others during the Global Gala. Share a talent by performing a dance or singing a song. Teach a popular game that is played in your country or tell a story. Bring an item from home that represents your culture. Through food, music, dancing, and other cultural activities, promote your culture and heritage and give others a glimpse at what life is like in your community.

- **Dining** - The award-winning Purdue dining courts offer something for everyone. The dining court serves a varied menu of hot meals, a salad bar stocked with fresh fruits and vegetables, juices and drinks, cereals, and sandwiches. Even picky eaters or those with special dietary needs will have an appetizing variety of healthy foods from which to choose. If your child has special dietary needs, please call GER²¹ at (765) 494-7243.

Supervision

- **Safety** - Key card building access and 24-hour residence hall staff help summer campers feel comfortable and secure. Per Purdue University policy, students will be escorted to and from classes daily. Staff members supervise activities and field trips away from the residence hall and are always available to students who choose to stay at the residence hall during afternoon activities. Students should never leave the residence hall without staff supervision. Unless they are with a staff member, students may not go beyond the academic campus and the small shopping areas near the residence hall.
- **Social and Emotional Development** - A special feature of our program that sets us apart from other camps is our social-emotional curriculum. Our camp counselors understand the social and emotional needs of the GER²¹ campers and are trained on student development, cultural sensitivity, and characteristics of children with gifts and talents. Camp counselors facilitate an affective curriculum in a small group format during the program. Helping to build a sense of community, these discussion sessions are an integral component of our camp.
- **Medical Care** - Medical information and permission for treatment will be collected from participants prior to registration. Parents will be notified of any medical emergency or illness as soon as possible. GER²¹ provides limited medical insurance that covers most basic costs while students are attending camp, but any additional medical expenses, expenses related to existing conditions, and/or medical services provided outside of camp attendance are the responsibility of the parents or guardians. Campers should bring an adequate supply of prescription medication in the original container to camp.

Financial Information

- **Tuition** – The program fees cover room and board, tuition, textbooks and course materials, class-related field trips, limited medical insurance, and a GER²¹ T-shirt. The fee does not cover incidental expenses, optional afternoon or weekend activities, or transportation to and from Purdue University. An application fee of \$100 per student is due with the application and will be refunded only if the student is not accepted into the program.

Tuition (per session)			
COMMUTER COMET	RESIDENTIAL COMET	STAR	PULSAR
\$1,000	\$1250	\$2,500	\$2,500

- **Saturday Field Trip** - STAR and PULSAR campers may choose to attend an extended field trip on the first Saturday of camp. These visits include tickets to museums or sporting events in major cities like Chicago or Indianapolis, but location and activity will change from year to year. The additional fee for this activity will be \$100 payable upon registration to cover the costs of venue admission and charter bus transportation. Because reservations are made well in advance, students who wish to add this field trip later may not be accommodated. Students who do not wish to attend the extended field trip will participate in activities within the greater West Lafayette area.
- **Camp Discounts** - Four tuition discount programs are available for 5% off the price of tuition. **Campers may be eligible for ONE of these discounts in combination with the 5% Early Bird discount (registration by February 15), for a total discount of 10%.** All discounts are applied to base tuition, not additional travel or field trip fees. The following discounts do not apply to those on scholarship.

Purdue Employee Discount - for GER²¹ campers whose parents or grandparents are employed by Purdue University. (Employee's Purdue email must be used upon registration.)

Siblings Discount - for siblings who attend in the same summer.

Multiple Session Discount - for campers who attend more than one session.

Refer-a-Friend Discount - for campers who recommend friends attending Summer Residential for the first time. Friend must attend for this to apply. Discount applied to both referring and referred students unless students attended with a group or on scholarship.

- **Payment – Payment in full is due June 1.** Payments can be made via check, money order, VISA, MasterCard, and Discover. No cash will be accepted. *We cannot process your application until the application fee of \$100 is received. If full payment is not received by June 1, the student's placement in classes will be removed. After tuition is paid in full, student's placement in classes will be determined based on availability; original class choices may no longer be available. If full payment is not received by June 15, the student's full registration will be cancelled.*

NOTE: Do not send payment to GER²¹. Checks must be sent to the Purdue Conferences office. Please make checks out to "Purdue University" with "GER²¹ Summer Residential: Child's Name" in the note and send to:

Purdue Conferences
128 Memorial Mall, STEW G32
Attn: Mercedes Nixon-Palmer
West Lafayette, IN 47907

- **Late Registrants** – Registrations received after June 1 must be paid in full at the time of application. Late registration is strongly discouraged and may not be accepted.
- **Refunds** – Students who withdraw prior to two weeks before the program begins will receive a refund equal to any paid tuition less the \$100 application fee. GER²¹ must receive a written cancellation notice via email (geri@purdue.edu) for refunds to be processed. No refunds will be given for cancellations made in the two weeks prior to the start of camp.

- **Financial Assistance** – GER²¹ provides a limited number of partial scholarships to students with financial need. To be considered for financial aid, a student must submit a complete application (including the financial aid section with documentation of financial need) and meet academic eligibility criteria. Scholarships are awarded on a first-come, first-served basis. Applications for financial aid will not be considered before a complete application is submitted and program eligibility is established. Because funds are limited and the demand for financial assistance exceeds our resources, we strongly recommend submitting an application as early as possible. Qualifying for financial aid in a previous program does not guarantee aid in subsequent programs.

Travel to Purdue University

- **By Car** – West Lafayette is just off I-65 between Indianapolis and Chicago. See page 13 for detailed directions.
- **By Plane** – Fly into the Indianapolis International Airport. Check with your airline for their policy regarding unaccompanied minors. Shuttle services to Purdue University is offered by Lafayette Limo (<https://www.lafayettelimo.com>, 765-497-3828) or the Reindeer Shuttle (<https://www.reindeershuttle.com>, 765-637-5124) for a reasonable cost.

If you are flying into an airport other than the Indianapolis International Airport, you will be responsible for making your own transportation arrangements to and from Purdue University. Lafayette Limo, Reindeer Shuttle (see above), and Express Air Coach (765-743-3120) have service from O'Hare Airport in Chicago.

NOTE: GER²¹ will no longer provide airport transportation. Individual campers and groups must make their own arrangements with Lafayette Limo, Reindeer Shuttle, or Express Air Coach (see above). IMPORTANT: Campers must inform the shuttle driver to be dropped off at the address below at Purdue University. Should a camper be dropped off at a different campus site, please contact GER²¹ immediately at 765-494-7243 (GER²¹ office) or 765-430-0437 (Dr. Kristen Seward), and a GER²¹ staff member will come to your location to pick you up.

**Purdue Honors College, North Building (HCRN)
1101 3rd Street
West Lafayette, IN 47906**

International Students

International student groups or individual students attending GER²¹ Summer Residential may be eligible to do so with a B status visa waiver by showing their invitation letter upon entry into the United States. To learn more about this program, or if you are not sure whether your country is eligible for participation, please visit <https://travel.state.gov/content/travel/en/us-visas.html>.

Daily Schedule	
7-8:30 AM	Breakfast
8:30-11:30 AM	Morning class
11:30 AM -1 PM	Lunch
1-4 PM	Afternoon class
4-5 PM	Meet with Small Groups
5-6 PM	Dinner
6-7 PM	Recreational activities/free time/study time
7-9 PM	Activity sessions
9-11 PM	Free/study time, group activities
11 PM	Lights out/bed check (midnight on weekend)

Lucky 7 Program

Bring 7 paid students and receive 1 additional registration free.

ADMISSION Requirements

GER²I Summer Camps are designed for talented students who have demonstrated an ability to succeed academically or artistically and are motivated to strive for additional challenges.

Returning Students

Register online at:

<http://www.purdue.edu/conferences/GER2ISummerRes2023>

Returning students do not need to submit an essay or qualifying documentation. Simply complete the program application online.

New Students

1. Register online at:

<http://www.purdue.edu/conferences/GER2ISummerRes2023>

Refer to pages 17-18 for information collected during registration.

2. A one- to two-page essay or alternative media (such as a website, PowerPoint presentation, or art portfolio) statement that addresses your desire and motivation to participate in the Summer Residential program. Use the following questions as guidelines:

- Why did you select the class(es) you have chosen?
- In what ways do you think you will benefit from the program?
- Why do you want an academic and/or artistic challenge?
- If accepted, what will you contribute to the success of the program you attend?

3. Please provide ONLY TWO of the following documents:

- Student grade transcript showing a GPA of 3.5/4.0 (B+) in the talent area related to the applicant's choice of GER²I class(es). Grades may be from the most recent year or cumulative.
- Individual or group intelligence test results with a minimum score of 120. Please submit results from the test company or school.
- National or state achievement or aptitude test results at or above the 90th percentile in a specific area of study. These tests must provide comparison scores and percentile rankings, not percentages correct. Examples include ITBS, I-STEP, CAT, MAT8, Midwest Talent Search, SAT, PSAT, ACT, or PLAN tests. Please submit test reports.
- Recommendation letter from a teacher or mentor in the talent area. This letter must address specific examples of the student's performance, experiences, and potential in the talent area of the class(es) he or she has selected.
- Documentation of involvement in the talent area. Such documentation can include pictures or scans of awards, certificates, service, or recognition letters documenting involvement.

You will upload the two supporting documents online through the registration website.



Application

Side 1

Gather your information and register at www.purdue.edu/conferences/GER21SummerRes2023

I am applying for the following program (choose one):

- COMET - for those who have completed grade 5 or 6
- STAR - for those who have completed grade 7 or 8
- PULSAR - for those who have completed grade 9, 10, 11, or 12

Registration opens 2/1/2022.

We accept online registrations only at: <http://www.purdue.edu/conferences/GER21SummerRes2023>

Be sure to have the following items on hand before you begin:

- 1) Student's session(s) and class selection(s);
- 2) Payment method for payment in full or for \$100 application fee;
- 3) Payment method for \$100 extended field trip fee for Star and Pulsar students only, if applicable. **For new GER²¹ Summer Residential campers, also include 1) Student essay or alternate media project and 2) Two of the academic eligibility documents.**

If you are registering a group, please contact the GER²¹ office via geri@purdue.edu or 765-494-7243 before you begin. GER²¹ reserves the right to cancel programs at any time. Purdue University is not responsible for costs incurred due to cancellation.

Purdue is committed to making its programs accessible to individuals with disabilities. If you require an accommodation or special assistance for this program due to a disability, please contact us at 765-494-7243 or via email at geri@purdue.edu.

Applicant Information

Name _____
Last First Middle Initial

Date of Birth (mm/dd/yyyy) _____

Ethnicity (optional/check all that apply)

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Pacific Islander
- White
- Hispanic or Latino

Gender _____ Grade 2022-23 _____ Home Phone (_____) _____

Home Mailing Address _____

City _____ State _____ ZIP _____

Student Email _____

Check all that apply:

- I have participated in a previous session of the Summer Residential programs at Purdue.
- I am applying for financial aid. (To be considered for aid, you must complete the Financial Aid Application online at the time of registration.)
- I do not give permission for my photo or image to be included in the GER²¹ yearbook or be used for publicity purposes.
- I am referring a friend. Name of friend _____.
- I am a STAR or PULSAR student and I do NOT want to participate in a mixed-gender counseling group.

Parent/Legal Guardian Information

First Parent/Legal Guardian Name _____

Parent Home Mailing Address, if different than above _____

Work Phone (_____) _____ Cell (_____) _____

First Parent E-mail Address *required* _____

Second Parent/Legal Guardian Name _____

Parent Home Mailing Address, if different than above _____

Work Phone (_____) _____ Cell (_____) _____

Second Parent E-mail Address *required* _____

Not all parents have the means to send their children to GER²¹ summer camp. Your monetary donation will help us offer scholarships to qualified children with financial need. Please consider sponsoring another camper when you register your son or daughter. If you would like to make a tax-deductible donation to GER²¹ camps, please use the following link: <https://connect.purdue.edu/GERI>.

I will make a tax-deductible gift in the amount below to <https://connect.purdue.edu/GERI>.

- \$100
- One half a Star/Pulsar Registration (\$1,250)
- One half a Comet Registration (\$625)
- One Star/Pulsar Registration (\$2,500) Other
- One Comet Registration (\$1,250)
- (please specify): \$ _____

Apply online at

www.purdue.edu/conferences/GER21SummerRes2023

Please indicate below how you heard (found out) about the GER²¹ program.

- Word-of-mouth
- Direct Mailing
- GER²¹ Programs Listserv
- GER²¹ Website
- Social Media (Facebook, Twitter, Instagram, LinkedIn)
- Internet Search such as Google
- Other Website, Publication, or Event
 - Indy's Child
 - Just Kidding
 - State Gifted Association (IAG, IAGC, PAGE, TAGT)
 - Princeton Alumni Weekly
 - Center for Talent Development, Northwestern University
 - Student Education Programs
 - TeenLife
- Other (please specify): _____

An equal access/equal opportunity/affirmative action university

COMET

(completed grade 5 or 6)

- Comet I, July 2-8 Commuter**
(\$1,000)
- Comet I, July 2-8 Resident**
(\$1,250)
 - ___ Crime Scene Investigation (C.S.I.)
 - ___ Curious and Creative Thinking
 - ___ Fun Filmmaking
 - ___ Science of Sound with Synthesizers
 - ___ To Infinity and Beyond!
- Comet II, July 9-15 Commuter**
(\$1,000)
- Comet II, July 9-15 Resident**
(\$1,250)
 - ___ Crime Scene Investigation (C.S.I.)
 - ___ Game Genius (a.k.a. Mathematical Mastermind)
 - ___ It's Not Rocket Science! Oh, Wait, Yes, It Is!
 - ___ Science of Sound with Synthesizers
 - ___ The Invisible World of Bacteria and Immunology
 - ___ Virtual World Tour

STAR

(completed grade 7 or 8)

- Star I, July 2-15**
(\$2,500)

Morning

 - ___ Art and Science of Color and Design
 - ___ From Giant Leaps to Quantum Leaps
 - ___ Leadership 101
 - ___ The Future Is Electric!
 - ___ The Wonder and Magic of Chemistry

Afternoon

 - ___ A Literary Window to the World
 - ___ Acting Up and Acting Out: Constructing Cultures of Peace
 - ___ Bienvenue à Paris!
 - ___ Sleepy Science
 - ___ STEAM LABS™
- Star II, July 16-29**
(\$2,500)

- Star II, July 16-29**
(\$2,500)

Morning

 - ___ Francophone World Tour
 - ___ Let's Talk Science
 - ___ Marvels of Chemistry
 - ___ Music and Coding
 - ___ Optimize Your Talents with Six Sigma

- Star II, July 16-29**
(\$2,500)

Afternoon

 - ___ Electrochemistry—You Can't Escape It!
 - ___ Entrepreneurship Basics
 - ___ Exploring German Language and Culture
 - ___ From Giant Leaps to Quantum Leaps
 - ___ Psychological Anthropology: History meets Psychology
 - ___ STEAM LABS™

Pulsar

(completed grade 9, 10, 11, or 12)

- Pulsar I, July 2-15**
(\$2,500)

Morning

 - ___ All About Skyscrapers
 - ___ Art and Science of Color and Design
 - ___ Brainiacs Unite!
 - ___ Game Theory and Global Politics
 - ___ Launching Codes
 - ___ Think Like an Engineer

Afternoon

 - ___ Be Our Guest
 - ___ Design & Prototyping of Smart Toys and Robots
 - ___ Engineers Solving Physiological Problems
 - ___ Getting to the Root of the Problem
 - ___ Serious Gaming for the 21st Century
 - ___ Teaching Old Computers New Tricks

- Pulsar II, July 16-29**
(\$2,500)

- Pulsar II, July 16-29**
(\$2,500)

Morning

 - ___ Be Our Guest
 - ___ Brainiacs Unite!
 - ___ Leadership 101
 - ___ Music and Coding
 - ___ Optics! The Physics of Light
 - ___ Sleep Science as Health Science

- Pulsar II, July 16-29**
(\$2,500)

Afternoon

 - ___ Creative Writing Workshop
 - ___ Design & Prototyping of Smart Toys and Robots
 - ___ Engineers Solving Physiological Problems
 - ___ If You Give a Scientist a Cookie...
 - ___ Physics Without Math? Well, almost!
 - ___ Serious Gaming for the 21st Century

GER²¹ SUMMER RESIDENTIAL CAMPS

Application

Side 2

When you apply online

First-time campers should include the following items (see page 16):

1. Completed application
2. Student essay or alternate media
3. Two of the academic eligibility documents
4. \$100 deposit
5. **\$100 extended field trip fee**, if applicable.

Apply online:

Submit your materials using online registration at:

<http://www.purdue.edu/conferences/GER21SummerRes2023>

Send email to mnixonPA@purdue.edu or call Mercedes Nixon-Palmer at 765-494-7210 for registration related questions.

GER²¹ Office: (765) 494-7243

Application Fees

Tuition	\$ _____
Saturday Field Trip (STAR/PULSAR Only)	\$ _____
Total	\$ _____
Deposit	\$ _____
Balance Due	\$ _____

- I am a STAR or PULSAR camper, and I will be participating in the extended field trip on the first Saturday of camp. I have included the additional \$100 field trip fee with this application and the \$100 application fee.

Student's choice of classes will be canceled if payment is not received in full by June 1, and student's camp registration may be canceled if full payment is not received by June 15.



GER²I SUMMER CAMPS Financial Aid Application



GER²I provides limited funds for partial scholarships on a first-come, first-served basis based on eligibility. Apply online upon registration. This paper application is only for your reference. Your financial aid request will not be reviewed without this information. For questions about financial aid, please contact GER²I at geri@purdue.edu or 765-494-7243.

Child's Name _____ Birth Date _____

Parent/Guardian Name _____

Home Phone (_____) _____ Work Phone (_____) _____

All amounts should be the total for the 2022 calendar year.

- 1. Adjusted gross income _____
- 2. Taxable income _____
- 3. Total Social Security benefits for 2022 _____
- 4. Total AFDC and/or ADC for 2022 _____
- 5. Child support received for all children _____
- 6. Number of household members
 - a. Yourself ____ b. Spouse ____ c. Dependents ____
 - Total of a, b, and c _____

I certify that the information supplied above is accurate.

Parent/Legal Guardian Signature _____

geri@purdue.edu



GER²I SUMMER CAMPS
Gifted Education Research and Resource Institute
Beering Hall, Room 3159
100 North University Street
West Lafayette, IN 47907-2098
765-494-7243
Email geri@purdue.edu

www.purdue.edu/geri

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