



DEPARTMENT OF BIOLOGY

INDIANA UNIVERSITY
College of Arts and Sciences
Bloomington

Dear Teachers, Counselors, Administrators, and Students,

The Indiana University Department of Biology is delighted to once again offer exciting opportunities for underrepresented and underserved high school students to develop their interests in science through the Jim Holland Summer Science Programs. While ethnic and racial groups that have historically comprised a minority of the U.S. population are growing in size and influence, they remain underrepresented in the fields of science, technology, engineering, and mathematics (STEM). By continuing the tradition of providing low-cost, enriching STEM experiences for our students, it is our goal to increase their participation and thus, increase diversity in the STEM fields.

About Our Programs

Our programs target high-achieving students **currently** in the 8th- 11th grades (entering 9th - 12th grades in Fall 2020), from underrepresented (including African Americans, Hispanic/Latino, Native American/Alaskan Natives, Pacific Islanders) and underserved backgrounds. Students are expected to participate in all planned activities, take notes during lectures and lab sessions, maintain a journal on all academic elements of the program, and exhibit appropriate behavior at all times.

Holland Summer Enrichment Program (SEP) | Sunday, July 19 – Friday, July 24, 2020

The SEP is a week-long academic program open to current 8th, 9th, and 10th grades. Teams of Indiana University faculty members and high school teachers expose the students to concepts in various fields of Biology, hands-on laboratory experiences related to the discussions, and featured activities from other IU departments outside of Biology. Additionally, there will be workshops and panel discussions, and extensive opportunities to interact with faculty and graduate students.

Holland Summer Science Research Program (SSRP) | Sunday, July 12 – Sunday, July 19, 2020

The SSRP is a one-week research camp, *open to current 9th, 10th, and 11th graders*. The purpose of the SSRP is to provide opportunities for students to engage in meaningful research experience with a faculty member and his/her lab. During the program week, participants will:

- execute a small research project (or component thereof), be exposed to modern research tools and techniques, and gain insight into how and why scientific research is done;
- document their experience and communicate their work in a Poster Session at the conclusion of the program.

Holland Research Initiative in STEM Education (RISE) | Sunday, June 21 – Friday, July 3, 2020

The RISE is the third-year component to the SEP and SSRP. It is a two-week research camp designed to provide STEM career and college training for rising high school seniors (*current 11th grade*). RISE scholars attend research-intensive lectures delivered by faculty members, who provide insight into the scientific process, research ethics, goals, leading questions, and standard methodologies of their respective field. Students also refine laboratory techniques and learn procedures representative of the primary research conducted in that specific lab. These efforts are further enriched with college planning activities, including academic preparation for credit-bearing coursework in STEM, college admission procedures, financial advising, access to existing scholarship programs, just to name a few! RISE scholars will have opportunities to meet with other research internship students for workshops and additional activities, and learn how to network in the STEM fields. *Participants will be awarded a \$600 stipend upon successful completion of the program.*

Student participants will receive free room and meals at one of the residence halls on our beautiful campus, thanks to continued support from IU Diversity, Equity, and Multicultural Affairs, IU College of Arts & Sciences, IU Department of Biology, and Cook Incorporated of Bloomington, IN.

Students who are African American, Hispanic/Latino, Native American, Native Alaskan or Native Pacific Islander are strongly encouraged to apply.

For more information about the program and to access the online application, please visit:
<https://go.iu.edu/holland>

Please feel free to share this link on your school or district website.

Indiana University Jim Holland Summer Science Programs

<http://go.iu.edu/holland>

The IU Jim Holland Summer Science Programs are specifically designed to address the ethnic and racial disparities that exist in STEM. They focus on high-achieving students who are **currently** in grades 8–11 (entering 9th, 10th, 11th & 12th grades in Fall 2020), including African Americans, Hispanic Americans/Latinos, Native Americans, Native Alaskans or Native Pacific Islanders, and hopes to attract them to Indiana University. It is our goal to increase participation of students from underrepresented groups and thus, increase diversity in the STEM fields.

OUR PROGRAMS

Holland Summer Enrichment Program (SEP):

Sunday, July 19 – Friday, July 24, 2020

The *Holland SEP* is a week-long academic program for **rising 9th, 10th, and 11th grade** students (current 8th, 9th, and 10th grade) where teams of Indiana University faculty members and high school teachers expose students to concepts in various fields of science and technology through hands-on laboratory experiences, lectures, discussions, field trips, and facility tours.



Eligibility:

- At least 3.0 GPA (non-weighted)
- Science and math courses
- 2 teacher recommendations

Holland Summer Science Research Program (SSRP):

Sunday, July 12 – Sunday, July 19, 2020

The *Holland SSRP* is a one-week residential academic program for **rising 10th, 11th, and 12th grade** students (current 9th, 10th, and 11th grade) designed to introduce high school students to scientific research. During the week of the program, participants will be integrated into a research lab and execute a small research project (or component thereof) in collaboration with a faculty member and members of his/her lab, as well as document their experience and communicate their work in a Poster Session at the conclusion of the program.



Holland Research Initiative in STEM Education (RISE): Sunday, June 21 – Friday, July 3, 2020

The *Holland RISE* is the third-year component to the *Holland SEP* and *SSRP*. The *Holland RISE* is a two-week residential research camp designed to provide STEM career and college training for **rising high school seniors** (current 11th grade). *RISE* scholars attend research-intensive lectures and participate in hands-on activities delivered by faculty members, who provide insight into the scientific process, research ethics, goals, current leading questions, and standard methodologies of their respective field. Students will also attend workshops on college planning, covering academic preparation for credit-bearing coursework in STEM, college admission procedures, financial advising, access to existing scholarship programs, etc. and learn how to network within the STEM fields. *RISE* scholars will be awarded a \$600 stipend upon successful completion of the program.

**Application Deadline:
Monday, April 13, 2020**

**Submit Application to:
<http://go.iu.edu/holland>**