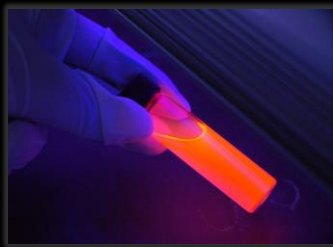




Ignite Curiosity, Forge Discovery: Join the ISR Experience!

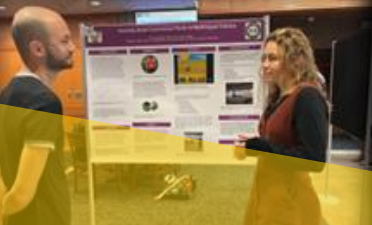
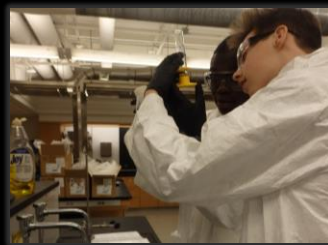
Hands-on Adventures: Dive into Real-World Science.



We go beyond the textbook, find out how real situations work (forensics, neurology, engineering)

Unlock Your Potential: Be a Scientist

Learn how science impacts you and use your curiosity to solve problems.



Interdisciplinary Science and Research Program at Hillsboro High School

OVERVIEW



The Interdisciplinary Science and Research Program (ISR) is a four-year, inquiry-driven pathway in the Academy of Global Health and Science at Hillsboro High School in direct partnership with the Collaborative for STEM Education and Outreach at Vanderbilt University.

Why ISR?

- ❖ Students are co-taught by a former **Vanderbilt Ph.D. scientist** and a **current** Vanderbilt postdoctoral scientist (Ph.D.).
- ❖ Students have the opportunity to receive **transferrable college credit** through Tennessee Tech University.
- ❖ **Project Based Learning (PBL)** is essential to ISR; students will learn to work collaboratively and communicate their research results to the community.

Unique Opportunities

- ❖ Since 2014, 55 ISR students have been selected for the 6-week **Research Experience for High School Students (REHSS)** at Vanderbilt.
- ❖ **Starting in 2024**, ISR is offering 6-week **paid internships** during the summer to develop various scientific skills.

Fun Fact:

*Hillsboro ISR students have been **Valedictorian** or **Salutatorian** 4 out of the last 5 years!*

**Contact ISR
at Hillsboro:**

Dr. Joshua Swartz

Phone: (615) 298-8400 ext. 435107
Email: josh.swartz@mnps.org
Website: <http://wearehillsboro.com/isr>





Developing Skills Through Curiosity

The Interdisciplinary Science and Research Program (ISR) promotes a unique opportunity for students to gain specialized research skills to assist their career choices in STEM and allied disciplines.

Become a Scientist!

ISR Students frequently are **competitive and win** prestigious science events.
At Hillsboro, our recent students have **won**:

**Tennessee Junior
Academy of Humanities
and Sciences Symposium**

**The 2023, Samsung
Solve for Tomorrow
grant for \$12,000.**

Where do our Students Go?

Vanderbilt University
**University of California
at Los Angeles**

Columbia University
**University of
Tennessee at Knoxville**

Belmont University
**George Washington
University**

Purdue University
University of Chicago

University of Colorado
Dartmouth College

University of Virginia
University of Michigan

Year 1 (9th Grade)

Students are **taught by Vanderbilt Scientists** to find their scientific curiosity.

Year 2 (10th Grade)

Scientist-Guided explorations to develop essential research skills.
Paid Summer Internships where students reinforce these skills.

Year 3 (11th Grade)

Dual-Enrolled through **Tennessee Tech University** (Environmental Studies).
Summer Internships (REHSS) at Vanderbilt University.

Year 4 (12th Grade)

Mentored by a **Vanderbilt Scientist** on **independent research projects**.
Students communicate their findings at **national science competitions**.

**Contact ISR
at Hillsboro:**

Dr. Joshua Swartz

Email: josh.swartz@mnps.org
Website: <http://wearehillsboro.com/isr>





Their Journey, Their Transformation

We are committed to a transformative experience at ISR-Hillsboro. With our valued partners, we strive to prepare our students for college while finding their interests in science.

Amanda, Class of 2026:

"It is awesome, I love it. ISR gives experiences that no other science class even thinks about!"

Haley, Class of 2018:

"ISR has made me a better writer and critical thinker. ISR makes me excited to come to school and class, because I know what we learn will be interesting. It has also taught me that it's okay to ask for help."

Max, Class of 2018:

"The ISR program has benefited me by showing me how to work hard academically. It really pushed me and made me an entirely new student. All of my skills have improved and so many new ones have been learned. It also grew my love for science."

Alan, Class of 2018:

"As I head into graduation from Arizona State University, I wanted to thank ISR for positively influencing me at Hillsboro. I believe that the challenging nature of ISR is what gave me the skills to succeed in college."

Sarah, Class of 2017:

"I've always been uncomfortable with presenting in the past, but over the four years of my involvement in ISR, I've become much better and more confident in my abilities."

Valary, Class of 2027:

"I have enjoyed that ISR has challenged me in ways that I didn't know possible, and it pushed me to be better in ways that I didn't know I could."



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UNIVERSITY



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