

BMG Emerging Scholars Program

Exploring the Future of Healthcare & Research

Program Overview

The BMG Emerging Scholars Program is designed to provide high school students with hands-on exposure to clinical research, medicine, and healthcare innovation. This program goes beyond traditional shadowing by offering an immersive experience that includes research, mentorship, and professional development.

Students will have the opportunity to:

- Shadow physicians across various specialties (Infectious Diseases, Emergency Medicine, Neurology, Oncology, etc.)
- Learn from industry scientists, non-profit leaders, and academic researchers
- Engage in a structured lecture series held synchronously via Zoom, allowing for real-time discussions, interactive Q&A, and engagement with experts in the field
- Critically analyze scientific literature and learn how to interpret data
- Participate in weekly discussions and peer review
- Assist on research manuscripts intended for publication
- Develop their own research project and present it at a Poster Symposium in July

This program is designed to equip students with tangible skills, real-world experience, and a final research product that can be used for future academic and professional endeavors. Additionally, the program accommodates students' schedules, allowing for flexibility in scheduling in-person shadowing and volunteer opportunities while ensuring continuous learning through the virtual component. We work individually with each student to coordinate the best times for their in-person experiences.

Program Timeline

Phase	Date Range	Key Activities
Pre-Program Assignments	March – Mid-April	Introductions and research interest submissions Assigned readings on Good Clinical Practice (GCP) and the basics of clinical research Discussion posts and critical breakdown of journal articles <i>All discussions and readings will take place in our virtual classroom.</i>
Program Launch	Mid-April	Official program kickoff Overview of clinical trials and research ethics
Research Question Development	Late April	Development of individual research questions Literature review and background research Weekly peer review and discussion sessions. <i>All discussions and readings will take place in our virtual classroom.</i>
Shadowing & Volunteering	April – June	Clinical shadowing experiences (<i>Scheduled based on student availability</i>) Volunteer opportunities in research and healthcare settings
Data Collection & Analysis	May – June	Research data collection and initial analysis Application of statistical methods and interpretation of findings
Lecture Series (Five Sessions)	April – June	<i>The following are example topics; the final lecture schedule will be confirmed later.</i> 1. Clinical Research and Drug Development 2. Translational Medicine and Public Health 3. Ethics in Research and Regulatory Compliance 4. Industry vs. Academia: Career Paths in STEM 5. Science Communication and Writing for Publication

Manuscript Writing & Poster Development	June – July	Writing and structuring a scientific paper Designing a research poster Peer review and revision <i>All discussions and readings will take place in our virtual classroom.</i>
Final Presentation & Symposium	Late July	Formal poster presentation at the Cancer Center, faculty, and parent showcase

Program Recognition & Certification

- Students who complete the program will receive a certificate of participation recognizing their work.
- Exceptional projects and research efforts may be recognized with special awards at the Poster Symposium.

Parental Involvement & Support

- Parents and friends are invited to attend the Poster Symposium to celebrate their child's research and achievements.
- Periodic updates will be provided to keep parents informed on student progress.
- Parents with any questions or concerns are encouraged to reach out.

Why Join the BMG Emerging Scholars Program?

- Gain real-world exposure to clinical research and healthcare
- Receive mentorship from experts in medicine, industry, and academia
- Build a strong research portfolio for college and career advancement
- Present research at a professional symposium
- Flexible scheduling for in-person experiences, ensuring students can balance academics and extracurricular activities

This program is designed to provide direct experience, professional connections, and a final research product, helping students stand out in their future academic and career paths. We look forward to welcoming our next cohort of emerging scholars!