

STIR Magnet Abstract



The Science Technology Imagineering Robotics Magnet Program (STIR) offers STEM opportunities in scientific research, through hands-on investigation of real-world issues. State of the art technology is used to research childhood diseases, nutrition, engineering & robotics, crime scene investigation, computer science, and botanical research for NASA space studies to develop real-world solutions with added participation of community role models.

The mission of the Science Technology & Imagineering Robotics Magnet Program (STIR) is to develop each child's academic, technological, social, physical and emotional potential in an environment that creates lifelong learners in a Multicultural and changing world.

The skills gained through STIR will prepare students to pursue interests in scientific fields such as medicine, bio-technology, engineering, robotics, forensics, 3D modeling, and botany.

Participation in programs that extend beyond the school day involve students in hands-on opportunities that include Vex Robotics and Sea-Perch (Underwater Robots) Competitions, Biscayne National Park Ranger Program, Arts 4 Learning providing arts and community cultural resources to link learning experiences in the classroom to the real world, Fairchild Tropical Botanic Garden Challenge and Student Workshops, University of Miami Neuro-Science Research Center, and Fuel Up to Play 60.

Another objective of STIR is to connect learning with real-world opportunities. STIR has developed partnerships with the Smithsonian, The Phillip & Patricia Frost Museum of Science, Kendall Regional Medical Center, Florida International University TEACH Program, University of Miami Neuro-Science Center, Biscayne National Park, Fairchild Tropical Botanic Garden, Arts4Learning, The CLEO Institute for Climate Change, and Miami Dade College.

Riviera STIR magnet boasts a well renown, accomplished and award-winning program. Our teams have won multiple teamwork challenge championships, excellence awards, design awards, and judges awards in various VEX IQ robotics competitions, to name a few. All these accomplishments have led Riviera to receive the **Magnet Schools of America Excellence Designation.**