

**Rosewood Magnet School
Education Foundation, High Impact Grant 2021-2022**

Project: *Rosewood STEAM Eco Rangers, Innovative Community Advocates*

Project information: Rosewood Magnet School's interdisciplinary approach to learning is guided by the Core Knowledge curriculum, STEAM instruction, and Florida state standards. Integrating content areas through scientific exploration, design and engineering projects, performing arts, and hands-on engagement allows our students to become culturally literate, problem-solving citizens who can make connections to the world around them and help prepare them for the future. With this grant, we will be able to provide enriching experiences outside of the classroom on three Saturday STEAM Camps that will allow students to make connections to their community and see the value in their learning and their actions. Through a community partnership with the Ocean Research & Conservation Association (ORCA) students will experience how their learning connects to the immediate world around them and how they can use their learning to positively impact their community. Off-campus learning opportunities such as Lagoon Food Web/Food Chain, PVC ROV Building, Lagoon Exploration, Pollution Mapping, Fish Dissection, etc. with researchers and educators in the field will heighten these connections with the community. Additionally, with this grant, students will be able to use portable recording studios to record, edit, and present their learning through public service announcements, short movies/documentaries, stop motion videos, podcasts, etc. The portable studios will provide students with authentic, creative, and sharable ways to show their learning with their school, families, and community while advocating for their community and inspiring positive actions for others.

Project Alignment with District and School Goals: Last year, Rosewood Magnet School began the journey of becoming an SDIRC STEAM Designated School. This year, our goal is to provide greater STEAM experiences and add more authentic, hands-on, problem-solving learning experiences for our students. According to the Rosewood Magnet School Improvement Plan, 68% of our 5th graders scored on or above grade level on the 2020-2021 Science Florida Standards Assessment - a considerable decrease from the 76% earned in the 2018-2019 year. Economically disadvantaged students scoring on grade level or above on the 2020-2021 Science Florida Standards Assessment was 68%. Minority students scoring on grade level or above for the same test was 8%, a decrease of 47% from the previous testing year. Our plan is to increase these scores and foster community stewardship by providing real life problem-solving projects and experiences. This grant will provide STEAM experiences and resources that will enable us to incorporate technology to provide an outlet for students to reflect upon, share, and promote their learning with a greater audience.

Targeted population-The recording and editing studios will be available to all students in grades Kindergarten through 5th grade (536 students). The Rosewood Eco Rangers Club will be open to all (81) fifth graders with a focus on minority and economically disadvantaged students.

The Issue: This grant will help Rosewood Magnet School afford students the opportunity to experience genuine, community-minded, problem-solving through Saturday STEAM Camp as they work with research scientists (ORCA) and educators in the field on several Saturdays. The grant will also allow all Rosewood students to exhibit their learning creatively using the recording and editing studios, enabling students to reflect on issues as they utilize the technology to make their ideas visible, create awareness, and share their learning with others. All classroom teachers will be able to utilize the studios as part of STEAM lessons, adding rigor, engaging experiences, and reflection for students.

The Change: Fifth grade students will have a chance to work in the field with ORCA scientists and educators, becoming a part of the solution to preserving the resources within their own community. Access to the portable recording studios will give them a platform to become advocates for their community and inspire positive actions for others. All Rosewood students will benefit from the introduction of recording and editing studios to showcase their learning in meaningful and creative ways that can reach audiences beyond their classrooms.

The Action: Strategic activities include coordinating dates and programs with ORCA, creating a teacher team and Eco Ranger plans, district bus transportation for three Saturdays, purchasing equipment and supplies for the recording and editing studios, and teacher training and planning.

Grant oversight: Grant oversight will be provided by the STEAM coordinator, Media Specialist, and administration to ensure that the project is sustainable.

Monitoring progress and results: Progress monitoring will take place through Unify Formative Assessments, the STEAM designation rubric, state assessments, and showcases of student learning through projects created utilizing the recording and editing studio equipment.

Volunteers: Parent volunteers will accompany students and ORCA community volunteers will help scientists and teachers during Saturday STEAM Camp learning experiences on February 5, March 12, and April 2, 2022. High school students and community partners will be invited to volunteer with studio support and creation.

Itemized budget:

\$1000 for ORCA Experiences: Lagoon Food Web, Food Chain, PVC ROV Building, Lagoon Exploration, Fish Dissection (Paid to ORCA) *Over 3 Saturdays: 2/5/22, 3/12/22, 4/2/22*

\$900 Buses to and from the 3 Eco STEAM Saturday Camps (Paid to SDIRC Transportation)

\$900 stipends for 3 teachers for 3 Eco STEAM Saturday Camps (Paid to teachers, 4 hours per date at curriculum rate of \$25/hr)

\$3587.72 Padcaster Studio Suites (includes Padcaster Cases for iPads, Digital Toolkit, microphones, lenses, headsets, tripods, portable greenscreens and sunshades)

\$1500 iPad 11 Pro (Amazon) for two

\$92.99 Green Screen Kit (Amazon) Chromakey Green Screen and Background Stand Support System

Amount Requested and Total Project Cost: \$7980.71