**Faculty Member**  
**STEM Department (Computer Science)**  
**Middle School**

Imagining. Designing. Creating. Building. Coding. These are the skills and aptitudes Ransom Everglades hopes to develop in our middle school students, and we are searching for a faculty member who will guide, excite, and inspire our students as they move through the curriculum. We are seeking candidates with a range of experiences and abilities to help us envision and implement an innovative and relevant program that will prepare our middle school students for high school and beyond, encouraging them to explore new ways of thinking and cutting edge technologies.

At Ransom Everglades, all middle school students take a required semester-long course in robotics (building and coding) and a required semester-long course in programming (developing fundamental programming skills and becoming familiar with a variety of programming languages). Some of these skills are also integrated into our core math and science classes, and plans are in place to do more. Increasingly students are bringing to their experience at school significant background knowledge in these areas, and interests in areas such as digital music, virtual reality, and blockchain. Our goal is to continue to ensure that all middle school students are exposed to 21st century skills, and to meet students where they are and challenge them appropriately to expand their knowledge and interest. We hope to add a faculty member to our department who will contribute to the evolution of the curriculum in our current courses, and help design new opportunities for students either in the curriculum or in our co-curricular program.

Faculty members contribute to the department’s work developing curriculum and pedagogy and school-wide conversations about interdisciplinary and project-based learning, innovative assessment, and the creative integration of technology in teaching and learning. RE welcomes candidates who embrace the school’s value for inquiry-based, student-centered learning and share the school’s commitment to equitable, inclusive, culturally responsive education. Ransom Everglades expects its faculty members to be accessible to students, collaborate with peers, participate in department meetings and student activities, be committed to professional growth, and engage in the life of the school beyond the classroom. Applicants must have at least a Bachelor’s degree in a field related to computer science, mathematics, or engineering; a Master’s degree in one of these fields or in education is strongly preferred.

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**Position Start Date: August 2022**

**Location: Miami, Florida**

**FEATURED PROGRAM:** Python and Music Tech

This interdisciplinary course, offered to students in grade 8, combines coding with music, focusing on the creative aspects of the blending of music and technology. The course looks at the foundations of the Python programming language alongside a music software program called FL Studio. Students learn the skills of composition, arranging, recording, synthesizing and remixing of music as they complete various Python programming challenges. After learning the basics of both programs, students apply that knowledge to a program called EarSketch where they are able to produce and code their own creative music piece. In this course, students use their creativity to further develop the skills of problem solving, critical thinking and teamwork. Students use technology and hands-on laboratory activities to explore and discover music concepts.

**To Apply, submit:**
- a completed [employment application](#)
- a cover letter addressing your interest in teaching in an independent school and fit for Ransom Everglades
- a current CV, and
- unofficial transcripts

**To:** careers@ransomeverglades.org

Initial interviews will take place by video conference. Finalists either will be invited to campus for an in-person interview and teaching demonstration, or will have a "virtual campus visit," and will be asked to submit at least three references and/or letters of recommendation. For more information about Ransom Everglades School, see our website: [www.ransomeverglades.org](http://www.ransomeverglades.org)

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<th>Core Middle School STEM Curriculum:</th>
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<tr>
<td>• Integrated Science 1-3</td>
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<tr>
<td>• Foundations of Math through Algebra 2 and Geometry (Proof based)</td>
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<tr>
<td>• Introduction to Robotics</td>
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<td>• Introduction to Programming</td>
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**Sample STEM Electives and Activities:**
- Advanced Robotics
- Programming with Python and Music Tech
- Engineering: City of the Future
- Interactive Design in Virtual Reality
- VEX Robotics
School Mission
The mission of Ransom Everglades School is to provide an educational environment in which the pursuit of honor, academic excellence, and intellectual growth is complemented by concern for the physical, cultural, and character development of each student. The school provides rigorous college preparation that promotes the student’s sense of identity, community, personal integrity, and values for a productive and satisfying life, and prepares the student to lead and contribute to society.

A Diverse, Equitable, Inclusive Community
Ransom Everglades School is an inclusive community that welcomes and benefits from diverse experiences and perspectives. Our students and faculty embrace multiculturalism and appreciate the unique potential of each individual. During their time at RE, everyone benefits from the contributions of each member, while honing skills and sensitivities that prepare them to excel and lead in a global community.

The commitment to diversity at Ransom Everglades informs our hiring process, curriculum development, community outreach, co-curricular activities, and admission process. We implement programs, offer workshops and craft learning opportunities that reflect our core beliefs. Living by this philosophy ensures that our students develop the knowledge, skills and attitudes to be productive global citizens. RE is committed to looking for candidates with a wide range of backgrounds and experiences in our effort to build a diverse faculty in which all social groups are represented.

Supporting Excellence
Ransom Everglades faculty members are expected to pursue a continuous program of professional development and engagement, and are supported in doing so by the flexibility and financial generosity of the school and its benefactors, and our membership in the FolioCollaborative. The school regularly distributes books for the faculty to read together, and brings national guest speakers to campus to work with the faculty. Every faculty member and student is issued a stylus-enabled laptop computer. Microsoft 365, including Teams and OneNote, G Suite Enterprise Edition for Education, and the Adobe Creative Suite, as well as subscriptions to a number of other platforms, are provided for all faculty and students. Classrooms are equipped with ViewSonic interactive displays.

A competitive compensation is based on the experience and qualifications of the person selected. Ransom Everglades offers a comprehensive benefits package including retirement, health and dental insurance, disability and life insurance, and other benefits. Florida has no state or local income taxes.