Ransom Everglades School invites applications for full time, upper school faculty members in the STEM Department, beginning in August 2021. The STEM Department (combining Science and Mathematics & Computer Science) represents the school’s commitment to interdisciplinary thinking and to STEM as a core element of the curriculum. Ransom Everglades offers a range of courses in biology, chemistry, and physics, a rigorous math curriculum including Calculus BC w/Differential Equations, and Linear Algebra, along with computer science, data science, engineering, robotics, artificial intelligence, marine science, and other electives. The department seeks candidates to help grow the curriculum, especially in computer science, engineering, robotics, and maker education.

A 40,000 square foot LEED-certified STEM Center opened for the start of the 2020-21 academic year. State-of-the-art labs for life, chemical, and physical sciences, fully equipped workshops for making and engineering, and collaborative workspaces invite experimentation, creativity, and collaboration. With our new STEM Center, Ransom Everglades is further poised to equip students with the skills of modern innovation. Learn more about our STEM center [here](#).

Members of the STEM department contribute to the department’s ongoing discussions about interdisciplinary and experiential learning, research, innovative assessment practices, and best practices in the use of technology in education. Candidates must embrace the school’s value for inquiry-based, student-centered learning and the school’s commitment to diversity, equity, and inclusion. Ransom Everglades expects its faculty members to participate in department meetings, student activities, and otherwise be engaged in the life of the school. Prior independent school teaching experience, and proficiency with Microsoft Teams/OneNote and/or Google Classroom, are preferred. Applicants must have at least a Master’s degree in a STEM field and be comfortable using the Microsoft Suite and G Suite platforms.

While the search committee will entertain applications from candidates of all backgrounds, preferred are those who can enrich interdisciplinary ties within STEM, such as across computer science, robotics, and maker education. Candidates who can contribute experience and expertise in the following areas are especially encouraged to apply:

**Computer Science:** The advent of open source resources such as GitHub and Instructables have given the world new ways to learn and collaborate. RE seeks to develop curriculum in AI and machine learning, app development, web design, data analysis and visualization, and related areas, in addition to scripting code in several languages and design environments. For this area, prior teaching experience in computer science is strongly preferred.

**Engineering:** Experience in any of the following is beneficial: coding, mechatronics, circuitry and programming, design (including CAD) and fabrication capabilities including 3D modeling and printing, and use of machine-shop fabrication equipment.

**Physics:** Ransom Everglades offers an introductory physics course, as well as AP Physics 1, AP Physics 2, and both the electricity & magnetism and mechanics curricula of AP Physics C.

### Position

**Faculty Member**

**STEM Department**  
**Upper School**

As we build on what we know we do well—providing a deep foundation in classical math and science—we enrich these experiences with more interdisciplinary approaches and the integration of technology. Science and math come alive and come true philosophical disciplines when we move beyond a collection of facts or computational steps.

<table>
<thead>
<tr>
<th>Position</th>
<th>Start Date: August 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To Apply, submit:</strong></td>
<td></td>
</tr>
<tr>
<td>● a completed employment application</td>
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<tr>
<td>● a cover letter addressing your interest in teaching in an independent school and fit for Ransom Everglades</td>
<td></td>
</tr>
<tr>
<td>● a current CV, and</td>
<td></td>
</tr>
<tr>
<td>● unofficial transcripts</td>
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<tr>
<td><strong>To:</strong></td>
<td><a href="mailto:careers@ransomeverglades.org">careers@ransomeverglades.org</a></td>
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</table>

An initial round of interviews will take place by video conference. Depending on public health circumstances, 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)

<table>
<thead>
<tr>
<th>Location: Miami, Florida</th>
<th><strong>FEATURED PROGRAM:</strong> Robotics</th>
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<tr>
<td><strong>To Apply, submit:</strong></td>
<td>With the annual participation of more than 50 students, Ransom Everglades Robotics competes in VEX, BattleBots, and RoboSLAM competitions. The team has garnered many accolades, including numerous tournament championships, Create Awards, and Design Awards.</td>
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<td><strong>Total Faculty</strong></td>
<td>120</td>
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<td><strong>STEM Faculty</strong></td>
<td>43</td>
<td></td>
</tr>
<tr>
<td><strong>STEM Courses</strong></td>
<td>49</td>
<td></td>
</tr>
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**Sample STEM Electives:**

- Data Science
- Algorithms & Data Structures
- Linear Algebra
- Marine Field Research
- The Intelligence Behind AI
- Anatomy & Physiology
- Engineering I and II

**Sample STEM Activities:**

- Programming Team
- Math Team
- Mu Alpha Theta
- National Science Honor Society
- Bridge Building
- Competitive Math

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In 2020-21, the Robotics and Engineering programs moved into their new home on the first floor of the Fernandez STEM Center. Workshops are outfitted with lathes, laser cutters, 3D printers, and a plethora of traditional and innovative design and fabrication tools. Ample space is available for robotics arenas. Experimentation, competition, and exhibition are all possible in this new state-of-the-art facility.

Learn more about the Robotics program on our [website](#).
School Mission

Founded in 1903, Ransom Everglades School is an independent coeducational day school located in the historic bayside neighborhood of Coconut Grove within the City of Miami. Guided by the words of founder Paul C. Ransom, Ransom Everglades School seeks to produce graduates who “believe that they are put into this world not so much for what they can get out of it as for what they can put into it.” Total enrollment is approximately 1,130 students in grades 6-12. Ransom Everglades serves a talented and diverse student body that reflects Miami’s status as a center of international business, culture, and the arts. Roughly half of the students come from multicultural backgrounds, and almost thirty different languages are spoken in the homes of our families.

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, Inclusive, Equitable 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 curriculum, 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.

Supporting Excellence

All 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 Folio Collaborative. Technology is a vital part of the educational program at Ransom Everglades. 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. All classrooms are equipped with ViewSonic interactive displays and document cameras.

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, as well as other benefits. Florida has no state or local income taxes.

Ransom Everglades School (RE) provides equal employment opportunities (EEO) to all employees and applicants for employment without regard to race, color, religion, sex, national origin, age, disability or genetics. In addition to federal law requirements, RE complies with applicable state and local laws governing nondiscrimination in employment in every location in which RE has facilities. This policy applies to all terms and conditions of employment, including recruiting, hiring, placement, promotion, termination, layoff, recall, transfer, leaves of absence, compensation and training. RE expressly prohibits any form of workplace harassment based on race, color, religion, gender, sexual orientation, gender identity or expression, national origin, age, genetic information, disability, or veteran status.

Ransom Campus | 3575 Main Highway, Coconut Grove, Florida 33133 T: +1 305 460 8800 F: +1 305 460 8937 | www.ransomeverglades.org