

## MARIO UMANA ACADEMY

### Engineering/Robotics Coach

**Mario Umana Academy (K-8)** a Boston Public School located in East Boston, currently serves 781 students of which 77% are Hispanic. Over 90% of Umana students are at the poverty level and many are not native English speakers with 51% of the student population designated as English Language Learners (ELL). Even students, who are no longer categorized as ELL students, may still come from households where one or both parents do not speak or understand English. In September 2014, the Umana became a Dual Language School (English and Spanish) starting with this year's kindergarten students. Our Language Model starts in kindergarten with 80% of instruction in Spanish and 20% in English. During each subsequent school year, the amount of Spanish instruction will decrease until by grade 3 - 50% of instruction will be in Spanish and 50% in English. At the Umana the expectation is that all students – regardless of learning or language barriers – will succeed academically and socially.

**Position overview:** We are seeking an Engineering/Robotics Coach to work with teachers in grades 1 – 3 to support the implementation of a grant-funded robotics program. Utilizing robotic kits such as the KIBO, which is specifically designed for young students, and the LEGO WeDo, which includes robotic components programmed using Scratch programming, we will supplement math and science instruction in grades 1 – 3 with an engineering component. Since building instructional capacity is critical to increasing academic rigor, the part-time coach will support teachers in infusing robotics into their curriculum and classroom delivery. Each grade 1 – 3 class will have targeted robotics/engineering instruction twice a week; in addition their teachers will have dedicated training and classroom coaching (provided by the candidate) on a regular basis.

This position will be 12 – 15 hours per week – schedule will be established by participating teachers and the coach – and will run from the end of January through mid-June 2015. School hours are 7:25 AM – 2:25 PM – all robotics training and classroom coaching will occur during these hours.

**Qualifications & Compensation:** A graduate student with work experience in an engineering capacity and educational experience would be the ideal candidate but we will certainly consider graduate students who do not have engineering experience but are familiar with robotics and/or working with educators. No undergraduate students will be considered.

The position will pay \$35 – \$50 per hour commensurate with experience. There are no benefits.

Please check the school website ([www.umanaacademy.org](http://www.umanaacademy.org)) for additional information about the school. Interested candidates should submit a cover letter and resume electronically to Marlene Veldwisch - Director of Development - at [mveldwisch@bostonpublicschools.org](mailto:mveldwisch@bostonpublicschools.org) by January 9, 2015. If you have any questions, please feel free to contact Ms. Veldwisch.