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Nationally, the need exists for more highly-qualified teachers with STEM backgrounds to teach children in elementary and secondary schools, particularly in high-need school-districts. URI is the first and only IHE in Rhode Island to be awarded a NSF Robert Noyce Teacher Scholarship Award. The program seeks to increase the overall number and diversity of teacher candidates with strong STEM backgrounds by recruiting STEM majors and STEM career changers who might otherwise not have considered a career in K-12 teaching and supporting them through their induction years. We are recruiting 20 undergraduate STEM majors and 5 STEM professionals to teach in high-need school districts over nearly 6 years. Initially, scholarships of 10,000 each were awarded to support juniors and seniors majoring in a STEM area and education. Scholarships increased to 20,000. One-year stipends for 40,000 are offered to STEM professionals. In return, Scholars agree to teach in a high-need school district for 2 years for each year of support. We mentor and support Scholars during their first 3 years of teaching. 21 Noyce Scholars are now teaching science or mathematics in urban middle and high schools in Rhode Island and Connecticut, and elementary schools in Colorado and Massachusetts. (Received September 04, 2018)