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### Teach Next Year – Curriculum & Instruction Department

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# Teach Next Year - Curriculum & Instruction Department

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## Program Summary

The NOYCE Phase II project aimed “to increase the number of highly qualified STEM graduates entering the teaching profession, to prepare those teachers to be able to teach a wide range of urban students, and to build a continuum of teacher development for those teachers in their early teaching careers.”

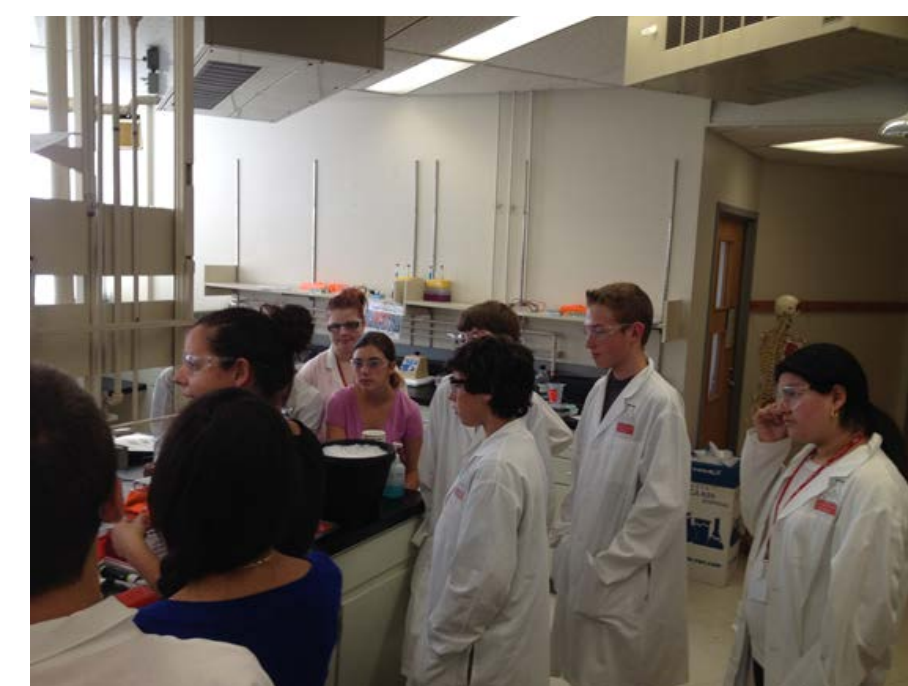
A report contained commendations and recommendations for the UMASS Boston TNY Program, based on analysis of data collected from the 2013 EOY survey that addressed the five NOYCE Phase II goals, and the Commonwealth of Massachusetts Competency Standards for teachers.

### The five NOYCE goals are:

- Identify, recruit, select and intensively prepare high quality STEM professionals to teach in the high-need areas of math and science.
- Prepare STEM teaching interns with the knowledge to work confidently and competently with students with moderate disabilities and/or students who speak English as a second language.
- Develop a comprehensive induction support and development program for new STEM teachers in their first three years of teaching.
- Foster a professional development community among the TNY mentor teachers through a monthly mentor leadership seminar focused on developing mentor standards and a mentor evaluation system.
- Expand existing evaluation and assessment models to enable the university to use student academic achievement measures to drive the preparation of future STEM teachers and to inform all teachers in the schools where the TNY/ NOYCE interns are placed.

## Partnership Highlights

Ryan Rowlinson, a 9th grade biology teacher at Everett High School and 2012-2013 TNY/Noyce Scholar recipient was excited to announce that his students were awarded top recognition at the high school's Science Fair and will be moving forward to the regional and hopefully national. Research projects focused on the fermentation of ethanol from recycled produce and an investigation into the most efficient renewable source of energy - hydroelectric, solar, or wind.



James Louis, a biology teacher at TechBoston Academy and 2001-2002 TNY Noyce Scholar shared photos of his students working in a science lab at Harvard Medical School (HMS), where they are mentored by HMS students and Dana Faber professors once a month.

In the photos below, these TechBoston Hinton Scholar students are practicing their surgical skills using a non-invasive medical procedure to remove a patient infected spleen. visit in 2011.



## Results and Impact

The University of Massachusetts Boston's Robert Noyce Graduate Scholars for Teaching program continues to grow and enjoy the support of our partner districts.

This past year UMass/Boston's Teach Next Year (TNY) program supported 21 STEM teachers, 11 of whom were candidates of color. This was our most diverse class ever! Even better, ninety-three percent of these teachers were hired across our two urban partner districts, Boston and Randolph.

We have continued to conduct research through our Noyce Scholarship program. This year we completed the first full evaluation of the TNY program. The evaluation provides a snapshot of last year's intern experience that will be used as a guide to future research that will help the program achieve its goals and maximize its already considerable success.

The results validate program elements already in place that are helping to increase the number of highly qualified STEM graduates in urban schools, helping those teachers develop skills and repertoire to teach the diverse students in those schools, and to be supported in the early stages of their teaching careers.

The results suggest aspects of the program to celebrate, to build upon, and to examine more closely for possible improvement.

Lauren Resnick's High school students engaging in project-based learning.



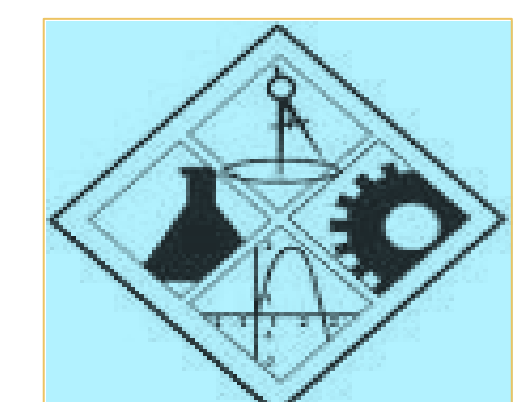
Ms. Resnick is a biology teacher at Revere High School and 2012-2013 TNY/Noyce Scholar recipient.

## Background and History

TNY is an accelerated teacher residency program designed to prepare interns for urban teaching as they pursue their master's degree in education (MEd) and Massachusetts initial teacher licensure through UMass Boston in approximately twelve months.

## School Sites

Boston Public Schools is the largest school district in Massachusetts. It serves a culturally and racially diverse community, primarily of African American and Latino/Latina descent. The Randolph Public Schools district is located in Eastern Massachusetts. The district also serves a culturally and racially diverse community, primarily of African American, Haitian, and Vietnamese descent.



### TNY/Noyce students complete their internships at the following participating schools:

TechBoston Academy  
Community Academy of Science and Health  
Charlestown High School  
Madison Park High  
Excel High School  
Eliot (K-8) School  
McCormack Middle School  
The Lee K-8 School  
The Holmes Elementary School  
The Eliot K-8 School  
Roger Clap Innovation School  
Boston Arts Academy

