



MathScience Innovation Center

*Imagine. Create. Lead.*

## 2015 Plan

### Vision

By 2015, the MSiC will lead educational, business, and community partners to implement 21<sup>st</sup> century math and science programs that will create the skills, enthusiasm, and commitment needed to prepare K-12 educators and students for rapid scientific and technological change.

### Mission

The MSiC will be the innovator, incubator and advocate of 21<sup>st</sup> Century math and science programs for the Capital region's K-12 educators and students.

### Initiatives

**FOR EDUCATIONAL LEADERS, the MSiC will scan trends and emerging fields and forecast implications for K-12 education.**

- Make futuristic presentations to the MSiC Board
- Establish an *Emerging Worlds Study Group* for the divisions' instructional leaders
- Present informational sessions to the educational community

**FOR TEACHERS, the MSiC will implement expanded opportunities to learn about emerging fields and effective ways to integrate within the curriculum.**

- Implement new programs in the fields of fractal geometry, engineering, nanotechnology, and environmental modeling
- Expand virtual delivery of programs through web-based courses, videoconferencing, and web sites
- Develop division-level leaders through the *21<sup>st</sup> Century Fellows* program
- Foster dialogue between educators and the greater community through field trips, panels, and web casts
- Continue core programs that strengthen teachers' academic backgrounds, enhance teaching credentials, and create communities of learners





**FOR STUDENTS, the MSiC will implement innovative programs to learn about emerging sciences and technologies.**

- Construct new *Imagine It!* classrooms at the Center focused on fractal geometry, nanotechnology, and environmental modeling
- Implement new classroom lessons that relate emerging fields of math, science and technology to the divisions' core curricula
- Engage students in creation of virtual field trips that showcase applications of math, science, and technology within their communities
- Expand learning opportunities through special courses at the division-level taught by *21<sup>st</sup> Century Fellows*
- Offer new delivery methods including division-level *Imagine It!* classrooms and virtual programming
- Continue core programs that strengthen students' academic background and foster interest and enthusiasm

**FOR THE COMMUNITY, the MSiC will provide opportunities to interact about emerging trends and concerns, develop partnerships, and engage in public advocacy.**

- Sponsor an annual *Emerging Worlds Seminar* focused on expanding leaders' understanding of 21<sup>st</sup> Century math, science, and technology
- Establish project-based teams to develop appropriate plans, secure funding, and lead implementation
- Engage in public advocacy of policies that support futuristic programs in K-12 schools
- Assess the effectiveness of various programs and use findings to inform future consortium and division-level programs



[www.msinnovation.info](http://www.msinnovation.info)