



GK-12 REGIONAL CONFERENCE

**University of Illinois at Urbana-Champaign
Champaign, IL**

GK-12 Graduate Teaching Fellows in K-12

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The UIUC GK-12 Program fellows collaborate with STEM and Education faculty and participating K-12 teachers to integrate the use of computer-based modeling and scientific visualization into science and mathematics education. The emphasis during 2006-09 school years is on quantitative aspects of science and social science.

Our goals are to:

- Develop sustainable partnerships among Science, Mathematics, Engineering and Technology (SMET) faculty, education faculty, and local school districts through the participation of graduate students with math and science domain expertise
- Provide professional development opportunities for participating teachers and education faculty related to computer-based modeling and scientific visualization
- Provide professional growth opportunities for aspiring scientists, mathematicians, and engineers, especially encouraging them to concern themselves with education at all levels
- Integrate computer-based modeling, visualization, and informatics within K-12 classrooms.
- Encourage multi- and inter-disciplinary approaches in the K-12 classrooms.
- Emphasize inquiry-based learning methods for fellows and teachers to implement in the K-12 classrooms.

