Preparation for Industrial Careers in the Mathematical Sciences

PICMath

PIC Math aims to:

* increase awareness among faculty and students about non-academic career options
* provide ugrad research experience using problems from industry
* prepare students for industrial careers

PIC Math program

The PIC Math program consists of:

* 3-day faculty summer training workshop
* spring semester course for students
* competition – students' solution to a semester-long research problem from BIG
* student recognition conference

PIC Math

During 1st two years, participants include

* 65 universities
* 68 faculty
* over 600 students

PIC Math allows

* students to begin research early (e.g., data analytics)
* research to be integrated in a course
* research to be interdisciplinary and in teams

Center for Ugrad Research in Mathematics (CURM)

CURM provides training and funding for math and stat faculty throughout the U.S. to do ugrad research

* during an entire academic year
* at their own university
* with their own students working in groups

CURM program

The CURM program consists of:

* 3-day faculty summer training workshop
* faculty course buyout
* $3000 stipend for students
* spring research conference

Students must

* present their research
* write a final research report/paper

CURM results (2007-2014)

* 312 students have participated (46% female, 26% underrep minorities).
* Students have written 130 papers and given 263 presentations.
* At institutions participating in CURM, 63% of the CURM students go on to graduate school while only 18% of the total math majors at these schools do so.

CURM results (2007-2014)

After the CURM program, over 90% of the CURM faculty have continued to work with ugrads in research.

Local versions of CURM have been replicated at 4 universities.