GOT A PROBLEM?

SIAM is Seeking Problem Ideas for Math Modeling Competition

MathWorks Math Modeling (M3) Challenge is an Internet-based, applied mathematics contest. High school juniors and seniors in the U.S. and sixth form students (age 16-19) in England and Wales may form and enter up to two teams of three to five students each per school. M3 Challenge takes place each year in March. Teams are given 14 hours to solve an open-ended, applied math-modeling problem related to a real-world issue. Winners receive scholarship prizes totaling $100,000 (> 75,000 GBP)! Registration and participation are free.

The goal of the Challenge is to motivate students to study and pursue careers in STEM disciplines, especially applied mathematics, computational science, data science, and technical computing. The problem is revealed to students only after they login on their selected Challenge day. Solutions are judged on the approach and methods used and the creativity displayed in problem solving and mathematical modeling. Extra credit in the form of technical computing scholarship awards is available for teams who opt to submit code.

Problem structure
Within the problem statement, there should be three questions for teams to answer:
- Question One: A warm up — every serious team can answer.
- Question Two: The guts — framed so that every team can have some success and many teams will cover it well.
- Question Three: The discriminator — many teams will do something, while only a few will have striking results.
- Data — data that is provided or easily found is desirable to encourage students to use coding and technical computing in solution papers.

Honoraria
- $50 for problems found suitable to add to the M3 Challenge problem reserve “bank”
- $500 for problems selected from the reserve bank to be used as “the” Challenge problem

Submit your ideas: M3Challenge.siam.org/suggest-problems

View previous problem statements:
M3Challenge.siam.org/resources/sample-problems
Contact SIAM for more information: m3challenge@siam.org