



2022 National Skills Challenges

Any team can participate in these challenges

Simulink Design Award

Now through Nov 19

Presented by MathWorks



Demonstrate your mastery of MATLAB/Simulink by presenting the model(s) used to program your robot. You can share models used in any BEST Competition Format (Classic, Classroom) or Skills Challenge.

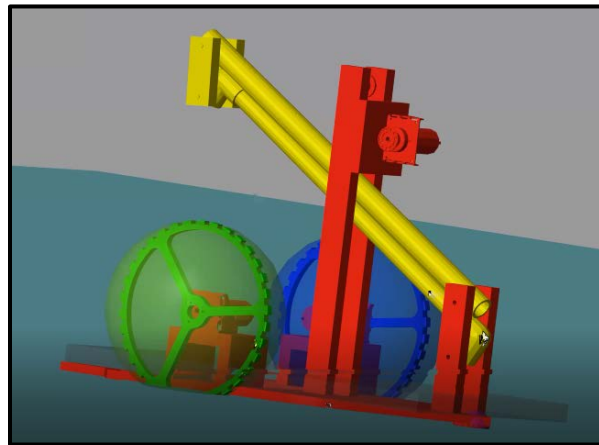
Any team can participate. Submission requires a 3-minute video.

Awards are distributed by Region.

[Learn More & Make Your Submission Here](#)

BEST National Robot Modeling Challenge *Now through Nov 19*

Presented by MathWorks



Modeling and simulation of multibody mechanical systems in a 3D environment is very common in engineering today. It helps engineers develop control systems and test system-level performance of their products.

Take your computer aided design to the next level in this challenge with Mathworks Simscape Multibody simulation environment. Model your team's robot in Simscape for a realistic 3D Simulation.

Start from scratch or import existing CAD models. Add joints and physical motion. Add modeling of actual physics, spatial contact/collisions between objects, and manipulation of game objects, all within the virtual environment provided.

Submit a video demonstration of your robot on the virtual robotics playground.

Earn recognition in your region (Texas, Denver, Souths) as the best modeler in the nation.


Any team can participate. Awards will be presented based on Regional and National level rankings at the conclusion of the challenge.

[Learn More & Make Your Submission Here](#)

Access the complete challenge rules through your Team Workflow.

[View the Recorded Training Session Here](#)

BEST IQ Challenge Sep 10 – Nov 26
Powered by MATLAB Cody



Mechanics **Physics** **Geometry**
Electrical **Forces and Motion**
Algebra **Linear Motion**
Friction **Mathematics**

**MathWorks +
MATLAB CODING**

What's Your BEST IQ?

September 10th

Join from your Team Workflow

- Work at your own pace!
- Climb the national leaderboard!
- Earn Badges and bonuses!
- Win awards and Mathworks swag!

So, you think you know STEM? Challenge yourself and find out your real BEST IQ!

A new national challenge to test your skills in multiple STEM categories. The challenge combines your knowledge and problem-solving skills with MATLAB CODING! Each solution must be coded as a function within MATLAB. The entire challenge is made possible through Mathworks Cody™ environment.

Solve problems, write code, climb the national leaderboard and demonstrate your BEST IQ to the world! You'll be in contention for the national BEST IQ awards and some cool Mathworks swag!

[Complete Challenge Rules available on Sep 10th Here](#)

Complete Challenge rules will become available on Sep 10th in your Team Workflow.

[View the recorded kickoff and training session here](#)