

Engineers Day 2026

Lego Building Competition

Hosted by The Institute for Industrial and Systems Engineers (IISE)

Where and When:

Where: TBD

When: Friday, October 23, 2026, from 9:00 A.M. - 2:00 P.M.

Activity description:

Each team will be given all the necessary materials in a bag to build the same simple Lego model. First, each team must set everything from the provided material bag out in front of them. Step by step instructions for building the model with the correct pieces will be provided to each team. The teams will be given 30 seconds to discuss the best course of action to build the Lego model in the shortest amount of time. The stopwatch to record their time will start after the thirty seconds of brainstorming ends, and the game operator says "Start Building!". The group will then build the model and will be timed. Whichever group builds the Lego model the quickest wins. All models will be checked for quality by the game operator once each team completes the model. The time that the operator takes to check the quality of each model will not be included in the team's official competition time. Following each competition, the game operator will discuss how assembly lines matter in Industrial Engineering.

Note for Volunteers:

You will be given a script to read aloud to students participating in the competition. These rules will also be given to you. Once teams have been established, kindly quiet everyone down, and begin reading the rules. Ensure everyone has a bag of the Lego materials and a sheet with instructions for building. Ensure all teams consist of 2-4 people. You will have a stopwatch to give the teams 30 seconds to prepare a plan. Once the 30 seconds is over, say "Start Building!", and the teams will build the Lego model as fast as they can. Have a running stopwatch to determine the time each team completes the Lego build. If multiple teams are competing against each other (max 2-3 teams at once), announce the winner of that round (the team with the shortest building time). Write down the winning team's participant's names and their time. If only one team is playing at once, write down their name and time as well. Remind everyone that the final winner will be announced the following day. Tell all teams to clean up their station and leave it as they found it. Check to ensure the stations are properly reset, then instruct the next set of teams to approach the competition and repeat this process

until your shift time is up. You may split up these tasks with other volunteers in your shift time.

Rules and Regulations:

- Each team must consist of 2-4 people
- Lego parts can be spread out/ positioned however the team would like
- The team can create their own building roles for each team member
- Not all team members have to be used
- No Lego parts can be connected before the team begins
- A quality check of each built Lego model is required once the team finishes the competition, completed by the game operator. If a model is not properly built, it does not count towards the competition.
- Teams can compete more than once to improve their time, if there are no other Teams waiting to participate

Scoring:

If there are two or more teams competing at the same time, a winning team will be announced at the end of that competition round. At the end of Engineers Day, the team with the fastest build time out of all the teams will be the official competition winner. All participating schools will be notified of the official competition winner following Engineers Day.