

Ethics in Engineering Case Competition

Getting Ready for 2023!

The 6th Annual Ethics in Engineering Case Competition will be held February 27 to March 1, 2023, at the Center for Leadership Excellence on the Lockheed Martin Headquarters campus in Bethesda, Maryland.

Lockheed Martin's Commitment to Future Engineers

Colleges and universities, each represented by a two-student undergraduate team and accompanying faculty advisor, present their solutions to a fictional case involving ethical, business and engineering issues.

In addition to the hands-on opportunities for students to learn about the company and its technologies, the annual event compels students to think about the importance of ethics in the workplace. The Competition focuses on real-life dilemmas that can arise in the workplace, especially in the multifaceted and fast-paced world of technology.

The case competition is just one example of how Lockheed Martin demonstrates the importance of voicing one's values in the face of intricate ethical dilemmas in the engineering and business spheres.



Why We Hold the Competition

When it comes to business and technology, ethics awareness is a good investment. In today's highly competitive marketplace, ethics plays a major role in business decision-making where a single misstep in judgment can impact safety, quality, as well as the reputation of the entire organization. Integrity is so vital to our business that we want students to be thinking seriously about ethics before they enter the workforce – especially in the increasingly complex landscape of technology and innovation.

The Competition

The case, developed with the support of two engineering leaders, presents a dilemma that requires two stakeholder groups to resolve. Two schools compete head-to-head, each representing one of the stakeholder groups. The goal for the successful team is not to win by forcing the other team to lose, but to take the lead in coming up with a win-win solution.

Recent competitions have addressed issues of potential satellite collisions, hypersonics, and challenges of Artificial Intelligence.

The Schools

The Case Competition began in 2018. In the five years since its inception a wide range of schools have participated, as well as won. In 2023 we look forward to hosting schools and universities from across the country and the world.





The Event

Colleges and universities, each represented by a two-student undergraduate team, present their solutions to a case involving ethical, business and engineering issues.

In addition to the Competition, students will visit Lockheed Martin’s Global Vision Center to get a hands-on look at some of our products and programs. Recruiters, engineers, and leaders will be available and presenting sessions on the future of the engineering profession

Registration

\$500 per team (which includes two students and one faculty advisor).

Fee covers all meals and transportation to events outside of our Conference Facility.

Fee does not cover transportation to Bethesda or lodging.

A group hotel rate will be included on the registration website

A Registration website will be available in August 2022.

Key Dates

9/9//22	Registration website opens
11/15/22	Deadline for registering schools and faculty advisor; Competition Guidelines and Preliminary Agenda posted
12/15/22	Deadline to register students
1/25/23	Case for Competition released to students
2/27/23	Competition begins at Lockheed Martin Headquarters in Bethesda, MD



Qualifications

A team is comprised of two undergraduate students, along with a faculty advisor. No more than one of the team members may be a graduating senior. Each of the registered schools may register guests from their school (i.e., additional faculty advisor, graduate student, additional students, etc.), but only the two registered student competitors may present throughout the competition. As the case will address an engineering issue, we recommend that at least one of the students be studying engineering. No more than one student team member may be a graduating senior.

Students who have interned at Lockheed Martin may participate, but students who have participated in a previous Lockheed Martin case competition may not. Students of all nationalities are welcome.

The Students

The student competitors have enjoyed the experience of researching solutions, competing, getting a taste of Lockheed Martin, and meeting one another.

This has been an incredible experience and the result of a lot of hard work by a ton of people - Certainly to get us here and to put on this competition virtually with a quick turnaround. This was an incredibly humbling experience to hear some of the talent and ideas from around the United States. We owe a lot to our faculty advisors for getting us through the last couple weeks of preparation and providing their expertise. Thank you to Lockheed Martin for the opportunity to compete. Thank you to our competitors for their ideas along the way. After every round, you learn something else and that was really important for us.

— Thomas McClosky, US Air Force Academy, 2022 Champion

It's been very unique to take the engineering principles we've been learning the past two years and dealing with the ambiguity and uncertainty, and we are sure to face was very inspiring – especially working alongside the other teams. Every school had their own perspective on the same problem.

— Ryan von Brock, US Coast Guard Academy, 2022 Champion

Faculty Advisors

The faculty advisors have raved about the opportunity for their students to see what business ethics looks like in the “real world.”

Thank you for putting on a great event this year, and for including UMass Lowell. The members of our team all got a lot out of it; one student in particular, is very excited about the prospect of working at LM. I especially liked the format this year, as it gave the team a chance to really do some good work in adapting during the competition. This kind of learning is just invaluable for these students as they prepare for their future careers as engineers.

— Dr. Aaron Pratt Shepherd, University of Massachusetts Lowell

Thank you for the great competition. I personally think it is one of the best experiences our students can get.

— Dr Mohamed Amar, University of Nebraska, Lincoln.

FOR MORE INFORMATION ABOUT THE 2023 COMPETITION

VISIT [OUR ACADEMIC WEBSITE](#) OR CONTACT

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