

The MedTech NextGen Robotics Challenge: Digital Tech

Sponsored by: Stryker

What Is It

Step into the future of healthcare innovation at the **NextGen Robotics Challenge**, an immersive team-based competition where students tackle a real-world medical technology challenge. Participants will work alongside peers from diverse disciplines to explore how emerging technologies, including artificial intelligence, can improve patient care and surgical decision-making.

Teams will move through the innovation process from understanding patient anatomy and clinical needs to developing technology concepts that could help surgeons make more informed decisions in the operating room. Along the way, participants will receive guidance from clinicians, engineers, AI experts, and medical technology professionals.

Whether you're interested in engineering, healthcare, technology, or entrepreneurship, the NextGen Innovation Challenge offers a unique opportunity to explore how innovation can transform patient outcomes while building skills that will support your future career.

Who Should Apply?

We welcome undergraduate students with an interest in healthcare innovation, including those studying:

- Engineering
- Biomedical Engineering
- Computer Science
- Artificial Intelligence and Data Science
- Robotics
- Life Sciences
- Related STEM disciplines

Applicants should be curious, collaborative, and excited to work on real-world challenges facing the medical technology industry. *Application Closes at 11:59 pm EST on Wednesday, October 7.*

What Participants Gain

- Experience solving a real healthcare innovation challenge
- Exposure to medical technology, AI, and precision medicine applications
- Mentorship from industry and clinical experts
- Opportunities to collaborate with students from multiple disciplines
- Experience presenting ideas to a panel of professionals and innovators
- Valuable networking connections with leaders across the MedTech ecosystem

How You'll Be Judged

1. Innovation – Is your AI/robotic solution new and impactful?
2. Clinical Impact – How does it help patients, and how easily can you explain that benefit?
3. Workflow – Does your solution fit into existing surgical practice and run reliably?
4. Strategic Value – Could it scale beyond spine to a broader platform?

Commitment

The competition will take place on **Tuesday, October 20 in the MedTech Campus**. Participants must be available in person from 9:00 AM – 5:00 PM ET.

Participants must be registered for the MedTech Conference. Email Sarah Maki at smaki@advamed.org if you have any questions about your registration.

Recommended: If you are selected to participate, a short training on how to use Roboflow will be provided in advance for completion in a web browser.

[Click Here to](#)
[Apply!](#)