MITRE EMBEDDED CAPTURE THE FLAG COMPETITION

How is this different from other Capture the Flag (CTF) competitions?

The eCTF is unique in two major ways. First, the focus is on securing embedded systems, which present an entirely new set of challenges and security issues that are not currently covered by traditional CTFs. Second, this event balances offense and defense by including a significant secure-design phase in addition to an attack phase. This competition will help you develop practical skills that can be applied to securing critical systems such as medical devices, smart grids, IoT devices, and mobile devices. The 2026 competition will run from mid-January through mid-April, with an award ceremony in late April.

Who can participate?

Anyone! Students at all academic levels are welcome to participate. Team sizes are unlimited (although a minimum of 3 students is recommended). Sponsorship of a faculty member is required.

Who can participate?

Team sizes are unlimited. We have seen successful teams of anywhere from one to 40 students, however we generally recommend new teams aim for 4-10 students. Fewer than four and students can become overwhelming if the team isn't prepared for the commitment

Can I earn course credits?

Most students can earn credits. Work with your professor(s)/team advisor to determine if/how you can earn credit at your institution. Remember that this is a significant time commitment, typically commensurate with the course credit you may receive. An example syllabus is available from the eCTF organizers upon request.

What is provided by MITRE to help?

MITRE provides teams with documentation, a reference implementation, embedded hardware, and t

Up for a challenge?

For more information, scan the code below or go to https://ectf.mitre.org where your team advisor can register your team.

Join Us in Tomorrow's Cyber Workforce

Don't miss out on the chance to be a part of this extraordinary journey. Together, let's shape the landscape of cybersecurity and unveil a world where innovation and secure embedded systems thrive!

eCTF10
10 YEARS OF THE EMBEDDED CAPTURE THE FLAG