



CMSC

Design for Rehabilitation Competition

CMSC DESIGN FOR REHABILITATION COMPETITION 2025: CALL FOR PROPOSALS

PURPOSE:

- The *CMSC Design for Rehabilitation Competition* brings together MS clinics, engineering schools, and patients to collaborate on creating devices that significantly improve the quality of life for those with Multiple Sclerosis (MS).
- This competition highlights the power of interdisciplinary collaboration in developing patient-focused solutions.
- It offers young innovators real-world design challenges and the opportunity to present their innovations on a competitive platform.

WHAT TO DO:

1. Identify a Problem

- Pinpoint a specific MS-related challenge that can be addressed with a new assistive device.

2. Build a Team

- **Required:**
 - Undergraduate or Graduate students (at least one student with engineering background), and their faculty advisor (can be a class or school project).
 - A healthcare provider (MD, PT, OT, NP, PA).
 - Choose a team leader and contact person.
- **Optional:**
 - A local MS center or healthcare facility.
 - Patients
 - Industry partners

3. Design, Fabricate, and Test the Device

- The device can be purely mechanical or involve electrical components/software (software-only solutions like apps are not allowed).
- Devices interfaced with smartphones and modified commercial devices are allowed.
- No limits on size, cost, or complexity, but funding is not provided by CMSC.
- The development must have occurred within 18 months prior to the competition.
- Test and demonstrate the device with team members.

4. Submit a Proposal

- Create a 1-page proposal of your innovation.
- Teams will be informed shortly after their submission if they meet the requirements to attend.

5. Attend the CMSC Annual Meeting

- Present your device at CMSC 2025 in Phoenix, AZ May 28 - May 31, 2025 for a chance to win a \$500 award and showcase your innovation.
- Virtual attendance is an option if needed.

REQUIREMENTS:

- Submit a 1-page proposal via email to both organizers.
 - **Include:** Team name and members, problem, background, proposed solution, market need and development stage.
- Submit final entry materials for the in-person competition.
 - **Include:** Further design developments, specifications, methods, research, testing results, feasibility, competitive analysis and references.
 - Prepare a 5-minute presentation with slide deck.
 - Posters and prototypes (encouraged but optional).
- Submissions will be judged on quality, impact, presentation, and team effort. The winning team will be announced at the awards ceremony.

DEADLINES:

- Email your intent to participate as soon as possible.
- **1-page proposal due:** April 30, 2025.
- **Final submission materials due:** May 21, 2025.

ORGANIZERS:

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For more information about the meeting, please visit:

[CMSC 2025 Annual Meeting](#)