



## CMSC 2020 Orlando: “Design for Rehabilitation” contest

Consortium of Multiple Sclerosis Centers (CMSC) is pleased to announce that the *Design for Rehabilitation* competition will be held again at the 34th Annual Meeting, May 27-30, 2020 in Orlando, Florida. The first annual contest in Seattle was a great success. Six talented engineering students presented their unique device, won the crowd and a life-learning experience. Team leader Mikaela Morelli will be returning to help run this year's second event.

### What to do:

- Contact your local engineering school (ME, BME, EE) before beginning of fall or spring semester---these departments are always looking for student project ideas.
- Identify a patient (client) diagnosed with Multiple Sclerosis (MS) with a “need” that can be helped by a unique device not commercially available (or redesign an existing device.)
- Assemble the team: engineering students and their faculty advisor, health-care provider, AND the patient.

### Purpose:

- Connects MS clinics, engineering schools, and patients.
- Fabricate a device that improves quality of life.
- It's about education, and rapid solutions that work for patients.
- Present at CMSC 2020 and compete for the award.

### Advice:

- Meet regularly with your team.
- Experience the design process.
- **Best is that the client participates.**
- Help young engineers learn about real-world challenges and contribute to MS care.
- Enter the Design for Rehabilitation Challenge and present your creation.

### Rules:

- Team must consist of at least one Multiple Sclerosis provider or health care professional (MD, PT, OT, etc...), the client (MS patient), engineering student(s) and engineering faculty adviser.
- Identify a challenge to the MS patient that can be met by a unique device.
- Design, build, and test the device.
- A letter of intent, video or PowerPoint presentation and report are required.
- A poster is recommended.
- Entries will be judged according to quality, impact, presentation, and team effort.
- Best entry will receive a plaque and cash award. Prizes also awarded to top three entries.

### Allowed:

- Devices with a user interface, mechanism, microcontroller, and software.
- Devices with no electronics.
- Partnership with local industry.
- Pure software entry is not encouraged.

### DEADLINES:

Prepare a *letter of intent* to enter by February 15, 2020.

**Do NOT** describe in detail the device or its purpose in the letter of intent.

**Do** express your interest and list team members, team leader, faculty advisor, healthcare professional and client.

Submit your report by May 1, 2020.

Report must be 1-2 pages long and outline the specifications of the device.

Submit the video or PowerPoint presentation by May 13, 2020.

Present your creation in a five to ten minute video or PowerPoint presentation and poster at the 2020 CMSC meeting.

### Student Benefits:

- Networking with professionals
- Free conference registration
- Social events
- Technology exposure

Please contact the organizers for more information or to register for the competition.

### Design for Rehabilitation Contest Organizers:

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Mikaela Morelli, BME Student

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CMSC 2019 *Design for Rehabilitation* contest winning team.

*Wheelchair Transfer Project*

Biomedical Engineering Design Team

University of Manitoba