About

What is HealthHacks?

At HealthHacks, medical innovators and students from multiple disciplines come together for one weekend to learn, design and create real solutions for unmet medical needs. This student-run event is similar in style to the traditional computer science-based design-a-thon, but with a focus on solving three major categories of medical problems:

Product Innovation  Improving Care  Patient Experience

HealthHacks encourages students of any field — engineering, arts, business, pre-med, medicine, pharmacy and others — to identify real problems and collaborate on solutions that can be taken to the next level. With mentors present and workshops throughout the day, multidisciplinary teams of hardworking students will build medical breakthroughs.

Theme

Assistive Technology and Prosthetics

The theme of Assistive Technology and Prosthetics challenges teams to address the needs of individuals with impairments. Through rapid prototyping and collaboration across the disciplines, teams will develop personalized rehabilitation technologies that have the potential to positively impact veterans across the Veterans Health Administration. Design solutions may take the form of devices for communication and cognition, enhanced access to computers and smart technologies, powered mobility, home automation, prosthetics, mental health supports and more.

The Hunter Holmes McGuire Veterans Affairs Medical Center collaborates with the Veterans Health Administration’s Innovators Network to empower employees and community partners in continuously improving the quality of care provided to Veterans.
**SATURDAY NOV. 3**

- **9 a.m.** Registration and Breakfast  
- **9:45 a.m.** Opening Ceremony and Problem Pitching  
- **11 a.m.** Lunch and Brainstorming  
- **11:30 a.m.** Solution Pitching and Team Formation  
- **Noon** Meet with Mentors and Start Hacking  
- **6 p.m.** Dinner  
- **6:15 p.m.** Tech Talk

**SUNDAY NOV. 4**

- **12 a.m.** Midnight Snack  
- **6:30 a.m.** Coffee and Early Bird Breakfast  
- **8:30 a.m.** Breakfast  
- **9 a.m.** Morning Workshop  
- **11:45 a.m.** Submissions Due and Hacking Ends  
- **Noon** Sponsor Fair and Networking Lunch  
- **1 p.m.** Preliminary Judging  
- **2:15 p.m.** Final Judging  
- **3:30 p.m.** Awards and Closing Ceremony
<table>
<thead>
<tr>
<th>Sponsorship Levels</th>
<th>GOLD $5,000</th>
<th>SILVER $2,500</th>
<th>BRONZE $1,250</th>
<th>SUPPORTER $500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logo on T-Shirt &amp; Web</td>
<td>Top Placement</td>
<td>Priority Placement</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Judge Entries</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Create Challenge</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Booth at Event</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Access to Resumes</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Named Breakfast</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Give or Sponsor TechTalk</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Named Lunch</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Give or Sponsor Keynote Speech</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Named Dinner</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-Host Event</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To sponsor: Contact Philip O' Connor at oconnorpl@vcu.edu or (804) 828-9551
Judging

Preliminary Judging
Roaming judges will each see a set number of projects science-fair style and give points based on judging criteria.

Final Judging
The top third of teams from the preliminary round will present their projects and demonstrate their solutions in front of the full panel of judges and students in the auditorium.

Criteria

- Functionality
- Creativity
- Feasibility
- Aesthetics
- Impact

Mentorship

Our mentors are an integral part of this event. As a mentor, what is your role? On Saturday morning, you pitch problems to the participants. Then, during team formation, you help groups brainstorm ideas and understand the challenges. You are free to come and go as you wish to continue these conversations over the weekend. On Sunday morning, you can help teach teams to present their projects professionally and effectively.

To get in touch about becoming a sponsor, contact Philip O’Connor, Executive Director, College of Engineering Foundation and Corporate Relations at oconnorpl@vcu.edu or (804) 828-9551.
HealthHacks 2017: BY THE NUMBERS

185 STUDENT ATTENDEES

79 COLLEGES REPRESENTED

40+ SPONSORS/MENTORS

29 TEAMS

20 MAJORS

INCLUDING:
- VCU
- Case Western
- University of Maryland
- University of Richmond
- Elon
- Campbell
- Steward School and More

INCLUDING:
- Abs Technology
- Anthem
- Open EMR
- Spark
- Atlantic Pediatric Device Consortium
- Startship
- Padilla
- Go Cubes

INCLUDING:
- Engineering
- Nursing
- Biology
- Computer Science
- Medicine
- Mathematics
- Business
Solace: A Social Network for Teens with Chronic Illness

**PROJECT:**
A mobile app that helps teens diagnosed with chronic illnesses to connect with each other and promote emotional resilience.

**TEAM:**
Sarah Poirier, Carolyn Zin, Faye Mendoza, Zachary Pottanat

AVM: Adjustable Vitals Monitor

**PROJECT:**
Our vital signs monitor senses and records SpO2, heart rate, blood pressure and temperature of an individual from their wrist or ankle (and can be moved to upper arm or leg).

**TEAM:**
Panth Doshi, Brennan Chaloux, Ian Burns, Omar Karim

Grow with It PVChair

**PROJECT:**
A width-adjustable children’s wheelchair made from materials that can be accessed in developing countries, including PVC, bicycle wheels and shopping cart wheels.

**TEAM:**
Carissa Akyeampong, Konstantin Mitic, Sarah Sopher, Coleen Foley

Myo Music Therapy

**PROJECT:**
Utilization of the Myo armbands to stimulate senses in children with hand amputations and congenital hand diseases through music.

**TEAM:**
Victoria Wagner, Eun Yi, Zachary Clement

HONORABLE MENTIONS:
Best Domain Name: FindMeImLost.net
Best Use of Amazon Web Services: FindMeImLost.net
Best IoT Hack with Qualcomm Dragonboard: Low Cost Electronic Medical Record