HEALTH HACKS
NOVEMBER 11-12, 2017
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of contents</td>
<td>2</td>
</tr>
<tr>
<td>About</td>
<td>3</td>
</tr>
<tr>
<td>Theme</td>
<td>4</td>
</tr>
<tr>
<td>The team + info</td>
<td>5</td>
</tr>
<tr>
<td>By the numbers</td>
<td>6</td>
</tr>
<tr>
<td>Sponsorship</td>
<td>8</td>
</tr>
<tr>
<td>Judging</td>
<td>9</td>
</tr>
<tr>
<td>Schedule</td>
<td>10</td>
</tr>
<tr>
<td>IEM</td>
<td>11</td>
</tr>
</tbody>
</table>
What is a Medical Hackathon?

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

- **Product Innovation**
- **Improving Care**
- **Patient Experience**

A medical hackathon 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 and workshops throughout the day, multidisciplinary teams of hardworking students will build medical breakthroughs at HealthHacks!
2017 THEME

Pediatrics

Because children differ from adults in many ways — including size, development and body chemistry — there is a need for unique medical devices designed for pediatrics. Major medical device companies often overlook pediatrics as a viable market, so the development of pediatric devices lags behind that of adult devices. As a result, physicians often have to improvise solutions or adapt existing adult devices for their pediatric patients. This year, HealthHacks will focus on solving pediatric-related problems from various subspecialties.
The VCU Institute for Engineering and Medicine (IEM) fosters collaborative programs between VCU Engineering, Life Sciences and Medicine. Its commitment to advancing discovery through sharing knowledge across disciplines makes the IEM a leading research destination. Its flagship facility by Engineering West Hall and spaces in the Virginia Biotechnology Research Park provide researchers state-of-the-art instrumentation and a collaborative culture.

The IEM’s mission is to provide a venue that promotes the advancement of research across the disciplines of engineering, physical sciences, medicine and the life sciences. It provides an environment that fosters sharing knowledge and resources to address the most challenging issues facing biomedical science and engineering.
HEALTHHACKS 2016

BY THE NUMBERS

160 STUDENT ATTENDEES
33 GROUPS PRESENTED

74 ENGINEERING STUDENTS
6 MEDICAL STUDENTS
30 COMPUTER SCIENCE STUDENTS

AMPEASE
PROJECT: A COMPLETE OVERHAUL OF METHODS FOR ADMINISTERING MEDICATION THROUGH A SYRINGE.
TEAM: CHRISTOPHER CHEN, PRIYA SHANKAR, WENDY SUN, VICKI HUANG

HEART IN HAND
PROJECT: SOFTWARE THAT TURNS CT IMAGES INTO 3D RENDERINGS, ALSO INCORPORATED INTO A VIRTUAL REALITY APP.
TEAM: ANISH DESAI, VIVEK PANDRANGI, UDEJILU UDEJI, JEFF ALVAREZ

TREMORSENSE
PROJECT: ANALYSIS OF TREMORS USING A WEARABLE DEVICE FOR PARKINSON’S DISEASE.
TEAM: ANTON MARTIN, BIJAL RAJPUT, BILL ZHANG, JONATHAN ZHENG
HEALTHHACKS 2016

BY THE NUMBERS

INSTITUTIONS REPRESENTED
VCU
CASE WESTERN
UNIVERSITY OF MARYLAND
UNIVERSITY OF RICHMOND
ELON
CAMPBELL
STEWARD SCHOOL
UVA

5 INDUSTRY/SPONSOR MENTORS
ATLANTIC PEDIATRIC DEVICE CONSORTIUM
VIRGINIA BIOTECHNOLOGY RESEARCH PARK
HALOMED NORTH AMERICA
BUCHANAN & EDWARDS
GITHUB
**SPONSORSHIP**

**Event Co-Host and Keynote Sponsor**  
*Includes all the benefits of the Silver, Bronze and Supporter packages, PLUS*  
- Top T-shirt logo placement  
- Option to give or sponsor the keynote speech  
- A dinner named after your company  

**Tutorial Sessions and Tech Talks Sponsor**  
*Includes all the benefits of the Bronze and Supporter packages, PLUS*  
- Priority T-shirt logo placement  
- Option to give or sponsor a tech talk  
- A lunch named after your company  

**Create a Challenge**  
*Includes all the benefits of the Supporter package, PLUS*  
- Option to have a rep & booth at the event  
- Access to participants’ resumes  
- A breakfast named after your company  

**Show Your Support with a Presence at the Event**  
- Logo on T-shirts  
- Option to judge entries  

**GOLD**  
$5,000  

**SILVER**  
$2,500  

**BRONZE**  
$1,250  

**SUPPORTER**  
$500
Preliminary Judging Round
Roaming judges will each see a set number of projects science-fair style and give points based on judging criteria. The top third of projects will continue to the final judging round.

Final Judging Round
Teams in the top third will present their projects and demonstrate their solutions in front of the full panel of judges and students in the auditorium.

Why should you support this event?
- Special marketing and branding opportunity with a diverse and engaged audience (undergraduate/graduate students, industry, physicians, practitioners)
- Ability to provide a challenge/project for teams to tackle over 24 hours and provide ideas for future development, innovation and proof of concept
- Access and recruit valuable talent for your organization

Criteria for Judging
- Functionality
- Creativity
- Impact
- Feasibility
- Aesthetics
HealthHacks spans a 24-hour period of intense innovation and problem-solving. The event includes several food breaks that highlight some of Richmond’s best cuisine and will feature games and new tech for participants to explore.
THE TEAM + INFO

Event Contact Info

HealthHacks.vcu.edu | HealthHacks@vcu.edu

For Attendees and Mentors

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