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On behalf of the college, it’s my pleasure to welcome you to this no-holds-barred hackathon. Competitions like this demonstrate that VCU Engineering was — and is — the engineering program built on public-private partnerships. Your assistance is what makes it possible for us to ask our students to gather their most daring ideas and come up with astonishing innovations in just 24 hours. Thank you for your support.

— Barbara D. Boyan, Ph.D.
Alice T. and William H. Goodwin, Jr. Dean
VCU College of Engineering

It is my pleasure to announce the (already) eighth edition of the RamHacks competition, the Department of Computer Science in the VCU College of Engineering’s premier hackathon. As we host this event, we are ready to develop a lasting partnership with your company. By partnering with us, you will engage students from all over Virginia and many other states and help enhance their creativity and programming skills. Thank you for considering a partnership with the Department of Computer Science and its RamHacks competition.

— Krzysztof “Krys” Cios, Ph.D., D.Sc., MBA
Chair
Department of Computer Science
Who we are
The RamHacks organizing committee of the VCU Department of Computer Science.

The hackathon
RamHacks is a 24-hour programming marathon for innovative developers from a variety of universities to design and implement a software or hardware application. Sponsors provide specific themes and challenges, and competitors take them on. This will be the eighth hackathon organized at the VCU College of Engineering. Our goal this year is 450 participants. Due to COVID-19 restrictions the event will be entirely online, allowing us to attract talent from all the US.

Students work in teams of up to four members. Cross-university teams are encouraged. RamHacks gives creative programmers a chance to innovate together. We host this hackathon to ignite the spirits of students in a competition with no creative boundaries.

Why RamHacks?
RamHacks is an opportunity for technology-driven companies of all sizes to engage with VCU College of Engineering — and recruit the next generation of highly skilled workers.

Benefits of sponsorship
- Recognition at the event
- Company branding on RamHacks materials
- An interactive networking opportunity with a recruitment pool of 450 students
- New API/software demonstrations

How to become a sponsor
Fill out the RamHacks sponsorship form at support.vcu.edu/event/ramhacks
To donate, visit support.vcu.edu/give and search for the fund “RamHacks Foundation for RamHacks”
Checks may be made payable to the VCU College of Engineering Foundation for RamHacks.

For more information about the event, contact:
Bartosz Krawczyk, Ph.D.
Assistant Professor
Department of Computer Science
(804) 828-7365
bkrawczyk@vcu.edu
2020 SPONSORS

Gold

CARMAX

Silver

CapitalOne, CoStar Group, Altria

Bronze

IPPON, Cotiviti, Cipher Tech Solutions, Markel, CapTech, [me]marginedge, Bank of America, stickermule
RamHacks isn’t just an opportunity to attract award-winning talent — it’s a chance to show what your company can do by tapping into some of the most innovative minds in the country.

**GOLD**

- Top logo placement.
- Keynote speech.
- Includes all the benefits of the silver and bronze packages.
- Limited to one sponsor.

**$5,000**

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**SILVER**

- Elevated logo placement.
- Give a tech talk.
- Includes all the benefits of the bronze package.

**$2,500**

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**BRONZE**

- Create a challenge.
- Representative and e-booth at the event.
- Access to participants’ resumes.

**$1,000**

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For information about sponsorship and benefits, contact:

**Anita Taylor**
Director of VCU Engineering Career Services
(804) 827-7028 | ahtaylor2@vcu.edu
OVERALL
The criteria for judging participants are based upon:
• Usability
• Functionality
• Innovation
• Use of hardware component (where applicable)
• Aesthetics

SPECIFIC CHALLENGES
Judged only by the creator of the challenge.

Independent criteria and awards will be based on the sponsor’s preference. A sponsor creating a challenge must provide a judge and an award. Teams are eligible for more than one award.

Judging will be conducted by the official sponsors of RamHacks.
Saturday, Sept. 25

9 a.m. Opening ceremony and keynote address
10 a.m. Challenges and announcements
10:30 a.m. Team formation
11 a.m. Hacking begins
3 p.m. Tech talk
5 p.m. Tech talk
7 p.m. Tech talk

Sunday, Sept. 26

11 a.m. Hacking ends
1 p.m. Expo and judging begin
4 p.m. Awards and closing ceremony

[Schedule may be subject to change]
The RamHacks organizing committee of the Department of Computer Science is grateful for your involvement with RamHacks. Companies like yours that value innovation, creativity and impact make this hackathon possible. Thank you.
11 Affiliate Faculty

68 Graduate Students

28 Full time Faculty

508 Undergraduate Students

3 Undergraduate Programs
- Bachelor of Science in Computer Science (Virginia’s first ABET-accredited CS program)
- Accelerated Bachelor of Science/Master of Science in Computer Science
- Post Baccalaureate Certificate in Computer Science

6 Graduate Programs
- Master of Science in Computer Science
- Ph.D. in Engineering - Computer Science Track
- Ph.D. in Computer Science
- Dual Ph.D. Program with University of Cordoba, Spain
- Post-Baccalaureate Certificate in Cybersecurity
- Post-Baccalaureate Certificate in Data Science

RESEARCH Sponsors
- Amazon Machine Learning Awards
- Idaho National Laboratory
- National Institutes of Health
- National Science Foundation
- U.S. Department of Defense
- U.S. Department of Energy
- U.S. Department of Transportation
- VCU Innovation Gateway

RESEARCH Areas
- Data security and Resilience
- Machine Learning
- Biomedical Informatics
- Internet of Things (IoT)
- Recommendation systems for software engineering
- Cryptography and Blockchain

STUDENT Orgs
- ACM (Association for Computing Machinery)
- Computer Science Student Advisory Board
- ACM-W (ACM’s Council on Women in Computing)
- Ram Development @ VCU
- Cyberdefenders @ VCU
- Linux User Group @ VCU

BY THE NUMBERS

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Group</th>
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<tbody>
<tr>
<td>39%</td>
<td>White</td>
</tr>
<tr>
<td>30%</td>
<td>Asian</td>
</tr>
<tr>
<td>13%</td>
<td>Hispanic/Latino</td>
</tr>
<tr>
<td>8%</td>
<td>2 or More Races</td>
</tr>
<tr>
<td>5%</td>
<td>Unknown</td>
</tr>
<tr>
<td>3%</td>
<td>International</td>
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</tbody>
</table>

Black/African-American 2 or More Races 2% Unknown
<table>
<thead>
<tr>
<th>Undergraduate Students</th>
<th>Graduate Students</th>
<th>M.S. Students</th>
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</thead>
<tbody>
<tr>
<td>1745</td>
<td>318</td>
<td>127</td>
</tr>
</tbody>
</table>

**RESEARCH Areas**
- Sustainability & Energy Engineering
- Mechanobiology & Regenerative Medicine
- Micro & Electronic Systems
- Cybersecurity
- Pharmaceutical Engineering
- Device Design & Development

**VCU College of Engineering BY THE NUMBERS**

<table>
<thead>
<tr>
<th>Female Students</th>
<th>Median Admit SAT</th>
<th>Average Admit GPA</th>
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<tbody>
<tr>
<td>28%</td>
<td>1288</td>
<td>3.95</td>
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- Biomedical Engineering
- Chemical & Life Science Engineering
- Computer Science
- Electrical & Computer Engineering
- Mechanical & Nuclear Engineering