Welcome to RamHacks, a hackathon open to any university student. RamHacks is presented by the Virginia Commonwealth University School of Engineering Department of Computer Science.

Your company is a driving force behind RamHacks. The knowledge brought to this hackathon by industry make it a powerful catalyst for out-of-the-box thinking. Thank you for considering RamHacks as a partnership between the School of Engineering, industry and creative minds ready to make something new.

— Barbara D. Boyan, Ph.D., Dean

As the Department of Computer Science Chair, it is my pleasure to announce the third year of RamHacks, VCU School of Engineering’s premier hackathon. The computer science department is excited to organize and host this event — and develop a lasting partnership with your company. By partnering with the Department of Computer Science, your company engages students from across the region and enhances their creative and programming skills. Thank you for considering RamHacks.

— Krzysztof J. Cios, Ph.D., Chair
Department of Computer Science
ABOUT

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 to design and implement a software or hardware application of their choosing. Specific themes and challenges provided by our sponsors will be presented to competitors. This will be the third Hackathon organized at the VCU School of Engineering and we intend to increase the number of participants to 300.

Students may work in teams of one to four members; cross-university teams are encouraged.

why ramhacks?

RamHacks gives creative programmers a chance to make something innovative together. The Department of Computer Science is hosting this hackathon to ignite the spirit of students by providing a competition with no creative boundaries.

The Department of Computer Science uses this as an opportunity to engage local, national and international companies by establishing new relationships between VCU and technology driven companies.

For information about RamHacks please contact:
Alberto Cano, Ph.D. | Assistant Professor, Department of Computer Science
(804) 827-4002 | acano@vcu.edu

benefits of sponsorship

• A personalized marketing medium
• An interactive networking approach with a potential recruitment pool of 300 students
• Potential API/Software demonstration

how sponsors can help

Sponsors make this hackathon possible by providing funds for food, beverages, security, porter service, etc. The remaining funds will support the Department of Computer Science for future events, undergraduate research and more.

how to be a sponsor

You can write a check payable to the VCU School of Engineering Foundation for the Department of Computer Science. To sponsor online, visit RamHacks.vcu.edu.

PREVIOUS SPONSORS

As pictured on RamHacks T-Shirts
SPONSORSHIP

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 the most innovative minds in the country.

Event Co-Host & Keynote Speaker
- Top T-shirt logo placement
- Keynote speech
- Have a dinner named after your company (limited to 1)
Includes all benefits of silver, bronze and supporter packages.

Tutorial Sessions & Tech Talks
- Give a TechTalk
- Priority T-shirt logo placement
- Have a lunch named after your company (limited to 2)
Includes all benefits of bronze and supporter packages.

Create a Challenge
- Rep & booth at the event
- Access to participants’ resumes
- Have breakfast named after your company (limited to 1)
Includes all benefits of supporter package.

Show your Support with a Presence at the Event
- Logo on T-shirts
- Judge entries

{ Sponsors are limited to one named meal }

For information about sponsorship & benefits please contact:
Philip O’Connor  Corporate Relations Officer | (804) 828-9551 | oconnorpl@vcu.edu

JUDGING

Judging will be conducted by the official sponsors of RamHacks.

1 // overall

The criteria for judging participants will be based upon:
- Usability
- Functionality
- Innovation
- Use of hardware component
- Aesthetics

Judged only by challenge creator.
Independent criteria and awards will be based on sponsor’s preference. If a sponsor (Gold, Silver, Bronze) is creating a challenge they must provide a judge and an award. Teams are eligible for more than one award.

2 // specific challenges

• Usability • Functionality • Innovation
• Use of hardware component
• Aesthetics

RamHacks.vcu.edu | 7
SCHEDULE

Saturday

17

10:00 a.m. | Registration
11:00 a.m. | Opening ceremony with keynote speech
12:00 p.m. | Silver sponsored lunch
1:00 p.m. | Hacking begins
3:00 p.m. | TechTalk
6:00 p.m. | Gold sponsored dinner
9:00 p.m. | TechTalk

Sunday

18

12:00 a.m. | Midnight snack
8:00 a.m. | Bronze sponsored breakfast
10:00 a.m. | TechTalk
12:00 p.m. | Silver sponsored lunch
1:00 p.m. | Hacking ends
1:00 p.m. | Expo and judging begin
3:00 p.m. | Closing ceremony

( Schedule may be subject to change. )

THE TEAM

The RamHacks organizing committee of the Department of Computer Science are grateful for your involvement with RamHacks. Companies like yours that value innovation, creativity and impact make this hackathon possible. Thank you for your interest.

Alberto Cano, Ph.D.
Assistant Professor, Department of Computer Science
acano@vcu.edu | (804) 827-4002

Ryan Murphy
President, Student Advisory Board

Chase Greco
Vice President, Student Advisory Board

Quark Wei
President, Association for Computing Machinery
Member, Student Advisory Board
**BY THE NUMBERS**

**vcu computer science**

- **274** undergraduate students
- **53** graduate students
- **10+** research grants
- **6** degree programs
  - B.S. in Computer Science
    - Certificate in Cybersecurity
    - Certificate in Data Science
  - Accelerated B.S. & M.S.
  - Post-Baccalaureate Certificate
  - M.S. in Computer Science
    - Certificate in Cybersecurity
    - Certificate in Data Science
  - M.S. in Computer & Information Systems Security
  - Ph.D. in Engineering, focus in Computer Science
- **3.95** average admit GPA

**vcu school of engineering**

- **1,714** undergraduate students
- **271** graduate students
- **1,248** average admit SAT
- **104** M.S. students
- **167** Ph.D. students
- **89** total faculty

**Research Areas**

- Sustainability & Energy Engineering
- Micro & Electronic Systems
- Pharmaceutical Engineering
- Device Design & Development
- Biomedical Engineering
- Chemical & Life Science Engineering
- Computer Science
- Electrical & Computer Engineering
- Mechanical & Nuclear Engineering

**Student ORGs**

- ACM (Association for Computing Machinery)
- Computer Science Student Advisory Board
- Ram Development @ VCU
- Cyberdefenders @ VCU
- Siggraph ACM @ VCU
- Linux User Group @ VCU

**Department Events**

- Hackathons
- High school programming contest
- Computer science seminar series

**Research Grants**

- Department of Energy
- National Science Foundation
- U.S. Army
- National Institutes of Health

**DEPARTMENT EVENTS**

- Biochemistry
- Computer science seminar series
- High school programming contest

**Sustainability & Energy Engineering**

- Micro & Electronic Systems
- Pharmaceutical Engineering
- Device Design & Development

**Student ORGs**

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**Research Areas**

- Bioinformatics
- Wireless Network Security
- Machine Learning
- Computational Linguistics

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**Research Areas**

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**Students**

- 25% female
- 47% white
- 19% Asian
- 14% Hispanic/Latino
- 9% Black/African-American
- 3% 2+ races
- 8% Other