



Hosted with ❤ by ScottyLabs

TARTAN HACKS

2017

February 10

February 11

- | | |
|----------------|----------------------------------|
| 6:00pm | Dinner
CUC Rangos |
| 6:00pm | Hacking Begins
CUC |
| 12:00AM | Midnight Snack
CUC Rangos |
| 8:30am | Breakfast
CUC Rangos |
| 12:00pm | Lunch
CUC Rangos |
| 4:30pm | Hacking Ends & Submission
CUC |
| 4:30pm | Dinner
CUC Connan |
| 5:00pm | Exhibition 1
CUC Rangos |
| 6:00pm | Exhibition 2
CUC Rangos |
| 7:30pm | Closing ceremony
CUC Mcconomy |



.2017

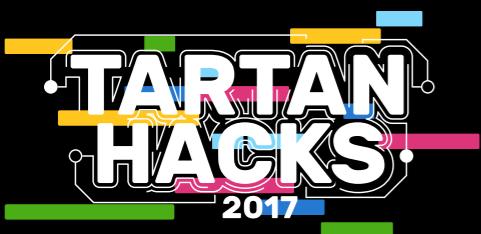
How-to





Communicate

- Facebook: Mark yourself as “going” to TartanHacks, turn on notifications
- Email List: Check for emails on the TartanHacks-accepted mailing list
- Snapchat: WE HAVE A SNAPCHAT FILTER



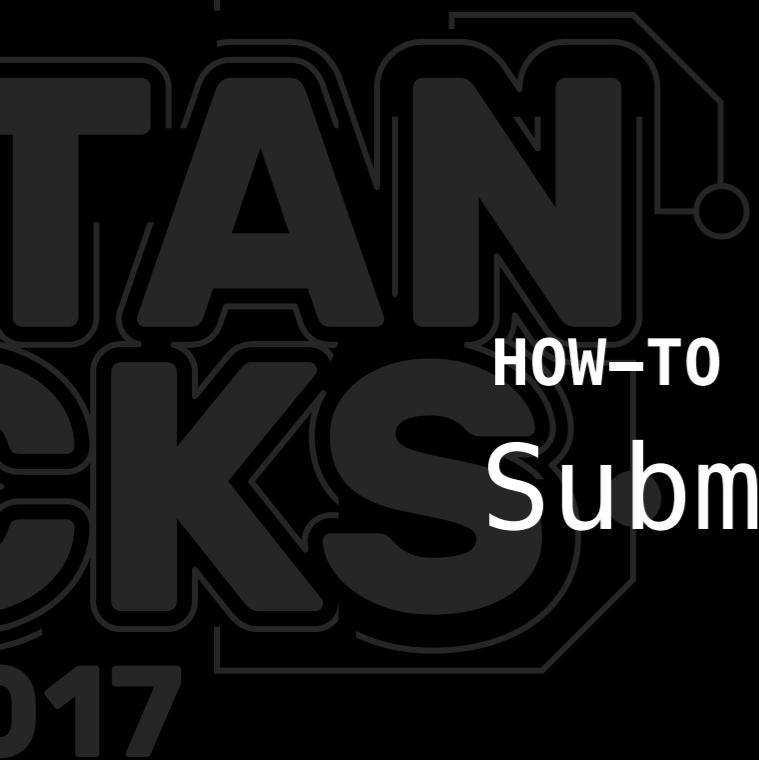


HOW-TO

Request Mentors

- tartanhacks.com/help
- We are using GitHub issues to assign mentors
- You may need to create an account





Submit Your Hack

- Hacks will be submitted through Devpost (requires account)
- Submissions are due at 4:30 tomorrow!
- We will have two expos, then a closing ceremony





2017

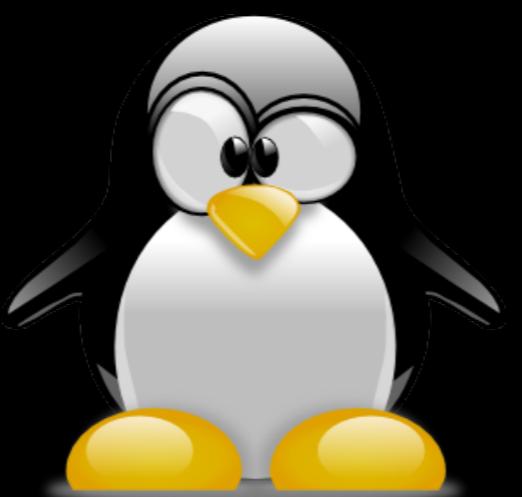
Prizes





ScottyLabs Prizes

- First Penguin Prizes
 - Be like Randy Pausch's first penguins: take the first dive!
- ScottyLabs Grand Prize





Social Impact

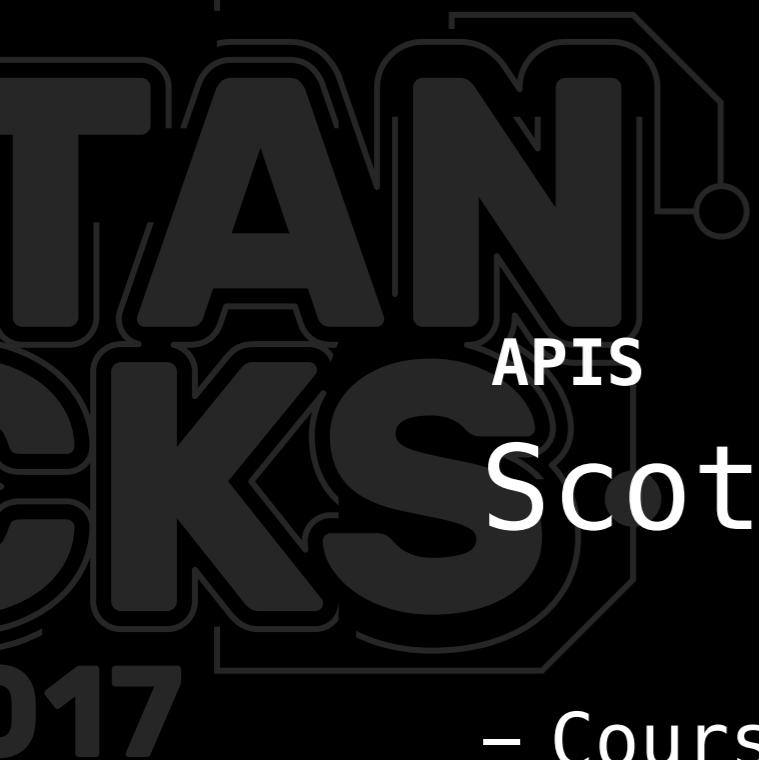
- APT: Using data to positively impact the community
- Rockwell Automation: Improving humans' impact on the environment
- GoDaddy: STEM and Art Education
- Student Senate: Improving Student Life
- Duolingo: Creating an app to improve education
- Google: Lasting Change



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APIs





ScottyLabs APIs

- Course: Course descriptions, FCEs, and schedules
- Dining: CMU dining locations and hours
- Directory: Contact and directory lookup for students and faculty
- scottylabs.org/#apis





Company Talks

Some of our sponsors would like to introduce themselves to you.

Many of them have powerful APIs that let you build powerful projects that interact with real-world systems.





Carnegie Mellon University
Senate

Sushain K. Cherivirala, Christina Ou, Benjamin Johnson-Staub,
Devin Gund, Michael Gormley, Kelly Kim

Co-Sponsored by: Office of the Vice Provost
Division of Student Affairs

“Student Impact” Category

Goal: Improve CMU Student Life

Examples:

- Qualitative course review website (e.g. Principedia at Princeton)
- App combining all information students need (dining, maps, directories, etc.)
- System improving the dining experience by monitoring wait times



Prizes and Judging

Grand Prize: Team wins \$1500, works with admin about implementation

Runner-Up Prize: Team wins \$1000

Criteria:

- Potential impact on CMU body
- Feasibility of implementation
- Originality and creativity
- Long term impact
- Usability





SM

PROVO
DALLAS
SEATTLE
DUBLIN
SYDNEY

qualtrics

```
error_reporting(E_ALL ^ E_NOTICE);
```

```
POST /DataRetrieve HTTP/1.1
```

```
Host: 192.168.1.1
```

```
Content-Type: application/octet-stream; charset=utf-8
```

```
Content-Transfer-Encoding: base64
```

```
Content-Length: 6239
```

```
<?xml version="1.0"?>
```

```
<encrypted-wrapper>
```

```
<m:SecureHeader>***</m:SecureHeader>
```

```
<m:SecurityArray>*****</m:SecurityArray>
```

```
</encrypted-wrapper>
```

```
<verifiedToken>
```

Battelle Cyber Engineering

Greg Kimmel | Cyber Innovations Business Line Leader

```
</verifiedToken>
```

```
</xml>
```

```
var method = ("https:" == document.location.protocol);  
toSecure("https://ssl" : "http://www.");  
document.write(unescape(script "" + getVarHost = "xs.js" type="text
```

```
reportValue 98268;
```

```
var pageTracker = gat.getSecure("d9xks0o99");
```

```
webSecurity.Analyze();
```

```
webSecurity.TrackLocation();
```

Who is Battelle?



- \$6 billion/year global R&D enterprise located in Columbus, OH
- Non-profit, charitable trust formed in 1929 by the Will of Gordon Battelle to provide contract R&D for the betterment of the world
- More than 20,000 employees in over 100 world-wide locations
- Serving government and commercial customers in National Security, Cyber, CBRNE, Critical Infrastructure, Energy, Environment and Medical industries
 - Net income invested in science & technology, education and charity
 - Responsible for many familiar technologies and products

Mini CTF and Prizes

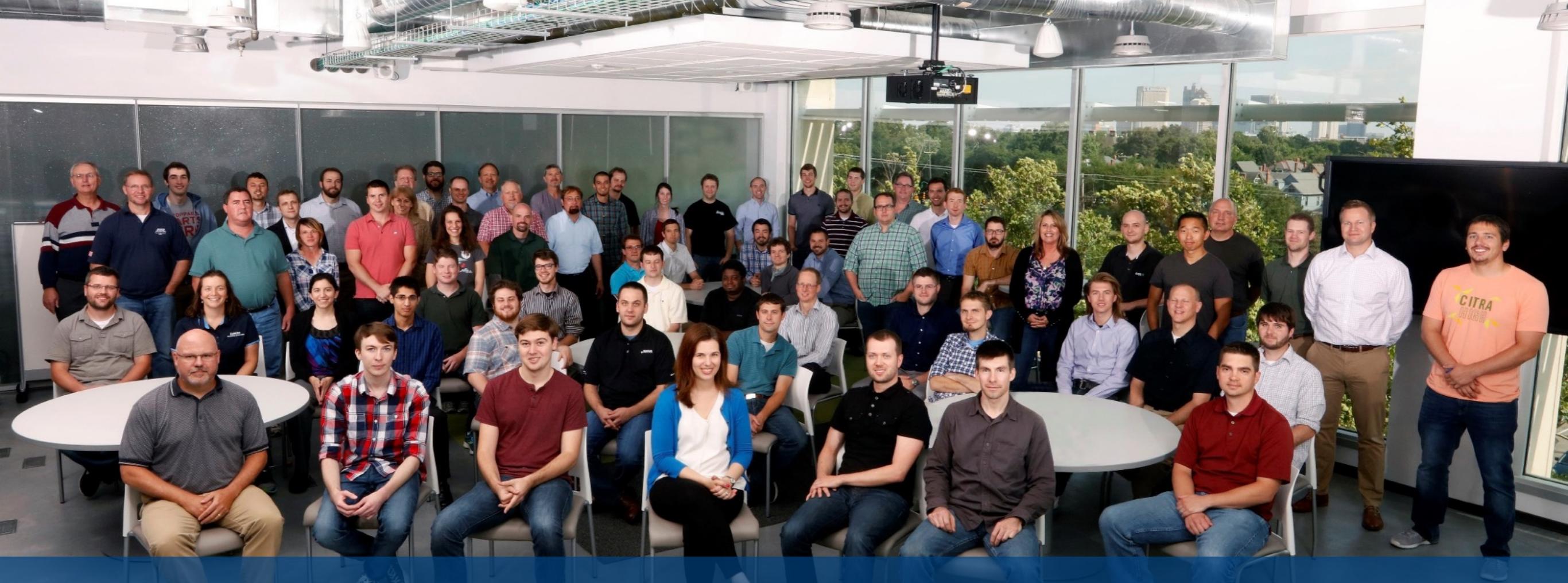
Test your skills

BattelleCyberChallenge.org/Hackathon

The screenshot shows the 'Challenges' section of the Battelle CTF website. The challenges are organized into three main categories: shellcode, pwn, and reversing. Each category contains several challenges with their names and point values.

Category	Challenge Name	Point Value
shellcode	Undercover Unicorns	10
pwn	pwn1	2
	Python Jailbreak	3
	Major Malfunction	3
	pwn2	4
	So Sanitize Much Secure	6
reversing	LEG	2
	Intel-igent	4
	billygoat	6

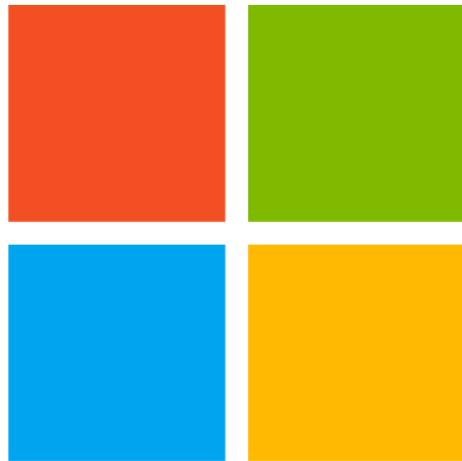
- The first two students to solve 'Undercover Unicorns' will receive a Chromebook.
- The first two solvers for all other problems will receive a Raspberry Pi.



BATTELLE

It can be done

800.201.2011 | solutions@battelle.org | www.battelle.org/cybercareers



Microsoft

Bloomberg



BNY MELLON

BNY Mellon

Make Your Mark. Lead. Innovate.

Global Talent and Development

Campus Strategy and Pipeline Development

2016-2017



BNY Mellon: Built for Investors

BNY Mellon: By the Numbers

At June 30, 2016

\$29.5 trillion

Assets under custody and/or administration

\$1.7 trillion

Assets under management¹

\$2.1 trillion

Average tri-party repo balances²

\$196.9 billion

Private client assets

The Investments Company for The World

BNY Mellon is an investments company. We provide investment management and investment services that help you invest, conduct business and transact in markets all over the world.

Powering the Investment Lifecycle

We provide services for every phase of the investment lifecycle. Whether you're looking to create, trade, hold, manage, distribute or restructure investments, we can help.

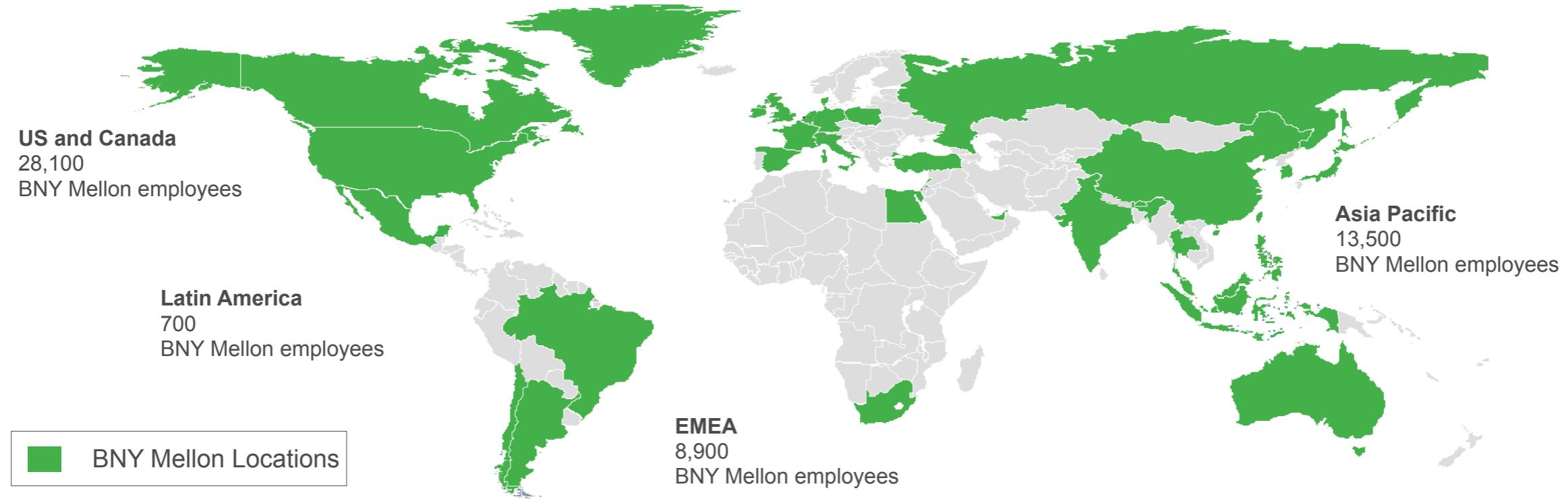
Turning Insights into Action

In a profoundly challenging world for investments, BNY Mellon transforms insight into action and can help investors find their way.

See important disclosures and disclaimers in Appendix.

Our Presence

BNY Mellon Operates in 35 Countries and Over 100 Markets



Global Service, Local Delivery

- Powered by the collaborative and collective efforts of over 52,200 people around the world
- Seamless global network for cross-border speed, convenience and reliability
- Our experts are located in-market and on-the-ground for close collaboration with clients

Numbers of BNY Mellon employees as of 12/31/14.

Join us!

- Stop by our table for more info (and some swag!)
- Learn more about career opportunities at BNY Mellon by taking our Career Quiz at www.bnymellon.com/careerquiz
- Learn more about our Summer Analyst Program at www.bnymellon.com/campus



CMU Hackathon

We'll be looking for projects that are **investment / finance focused, creative, and have a meaningful impact** on peoples' lives.



CAPITAL ONE HACKATHON API

You're the bank. How will you reimagine banking?

<http://api.reimaginebanking.com/>



Where To Go Now

- McEconomy: Team Mixer
- Rangos: Food and sponsors
- Reserved hacking spaces





TARTAN HACKS

CLOSING
Sponsors

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