

THE EMPLOYER BEAT

EMPLOYER NEWSLETTER
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A Note from Jeff

Jeff Jeffries
Director of Employer Relations



What a year it has been!

I hope that everyone had a terrific fall recruitment season. This fall was very reminiscent of the on-campus activity we saw prior to the pandemic in 2020. There was a buzz across campus with an increase in employers visiting to meet with students. In fact, much of the student body was having in-person meetings with employers for the first time.

The National Association of Colleges and Employers (NACE) recently completed a survey of employers and the overall feedback showed the employers plan to hire 14.7% more students in the class of 2023 than they did in the class of 2022. We have many opportunities in the spring semester to address the increased demand for early talent. The lineup of events for the spring semester is going to enable employers to connect in-person while still providing virtual engagement opportunities to help address employer needs. Only a small number of employers surveyed (6%) plan to cut back on university hires.

I would like to wish everyone a safe and happy holiday season! The Career & Professional Development Center and I look forward to seeing you in the new year.

Best Wishes,
Jeff

Carnegie Mellon in the news

Movie Math: Tetali's Equations Seen in Film

By Heidi Opdyke

In the movie, "Jerry & Marge Go Large," a man finds a legal loophole in lotteries. Carnegie Mellon University's [Prasad Tetali](#) wrote the on-screen calculations to explain how the math behind that loophole works.

The movie, which was released in June and available to stream on Paramount+, is based on the true story of Jerry and Marge Selbee — played by Bryan Cranston and Annette Bening — who won more than \$26 million from the Michigan Winfall and the Massachusetts State lotteries.



Prasad Tetali

[Story continues on page 2](#)

Upcoming Events Happening in Spring 2023

Jumpstart
EnCompass
Creative Arts Conference (CAOC)
Engineering Fair
Energy Fair
UI/UX Fair

[More event details on page 4](#)

(*Movie Math*, continued from page 1)

"I didn't know anything about either lottery so I went online, checked the rules and then figured out a solution," said Tetali, the Alexander M. Knaster Professor and Head of the [Department of Mathematical Sciences](#) in the [Mellon College of Science](#). "The actual math is a simple combinatorics and probability question at the undergraduate level."



Bryan Cranston as Jerry Selbee and Larry Wilmore as Steve Woods talk about the odds of winning a lottery in "Jerry & Marge go Large" streaming on Paramount+. Photo credit: Jake Giles Netter/Paramount+

Tetali's research focuses on probability theory, discrete mathematics and approximation algorithms. A fellow of the American Mathematical Society and the Society for Industrial and Applied Mathematics, he shared his explanation with the film's production team after they reached out to him for technical assistance.

Tickets for Winfall were \$1, and players selected six numbers from 1 to 49. The jackpot was worth at least \$2 million for tickets with all six numbers. Players who guessed between two and five of the winning numbers were awarded smaller prizes.

If no one selected all six numbers, the jackpot for the subsequent drawing would rise. When the jackpot rose to \$5 million, something called a roll-down would occur and the jackpot would be split among the smaller prize winners during that drawing.

In weeks without roll-downs a ticket with three winning numbers was worth \$5, but during roll-down drawings they were worth \$50.

"Without roll-down, there's a 1 in 57 chance to win \$5," Tetali said. "This gives an average dollar investment less than 20 cents in returns. But if it goes to roll-down and the prizes go up, a \$1 ticket has a chance of winning \$1.66 on average."

The trick was to purchase many tickets in accordance with the law of large numbers that states that the more times an

experiment is repeated, then the result will be close to the expected underlying result. If someone flips a coin five times, then the results might be one head and four tails. But that same coin is flipped 5,000 times, the results would be closer to 2,500 heads and 2,500 tails.

"So, if you purchased 100,000 tickets then you would get \$166,140 in return," Tetali wrote in an explanation to the film's production team. "Game on!"

[Read the full article here](#)

Carnegie Mellon in the news

CMU Racing Learns Tricks of the Trade From Industry Leader Chip Ganassi

By Susan Endres



Chip Ganassi visits the CMU Racing Team

Pittsburgh native Chip Ganassi's daughter was born around the same time he started working with Carnegie Mellon University's then-fledgling automotive racing team.

The former race car driver and owner of Chip Ganassi Racing said he didn't know much at the time about [CMU Racing](#) nor the Society of Automotive Engineers (SAE), of which CMU Racing is a chapter. SAE holds competitions for collegiate teams like Carnegie Mellon's.

Encouraged by a CMU administrator, Ganassi became involved with the team, answering questions, offering tips and serving as a mentor. Team members- to his surprise- named the car they built after his then-newborn daughter, Tessa.

[Read the full article here](#)

Carnegie Mellon in the news

Carnegie Mellon Receives the No. 1 Rank in Eight Program and Specialty Areas

Carnegie Mellon University is ranked No. 22 among National Universities in the [U.S. News & World Report 2022-2023 Best Colleges Rankings](#) released today. CMU is additionally ranked No. 3 Most Innovative School and received 23 top 10 rankings.

CMU ranks No. 1 overall in [computer science](#). In addition, Carnegie Mellon University ranks first in eight specialty areas within the [business](#), computer science and [engineering](#) programs that train the next generation of innovators to solve real-world problems and improve the way people live and work. They include:

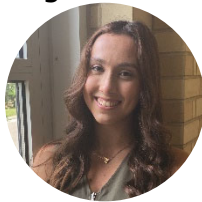
- Artificial Intelligence
- Computer Engineering
- Cybersecurity
- Management Information Systems
- Mobile/Web Applications
- Programming Languages
- Software Engineering
- Quantitative Analysis

Read more about the story [here](#)!

NEW CPDC STAFF MEMBERS

Tess Elford, Assistant Director,
Career Consultant- College of Engineering

Tess recently graduated from Slippery Rock University where she earned her master's degree in Counseling. Prior to joining the CPDC, she was an interviewer with the Heinz College Career Services Team at Carnegie Mellon University.



Mev Howison, Career Event Coordinator,
Employer Relations

Mev is a recent graduate of Carlow University where she earned her master's degree in Student Affairs. She joined the team as an Administrative Assistant and was quickly promoted to Career Event Coordinator.



Lois Wade, Office Manager &
Project Coordinator



Lois is the new office manager for the CPDC. Prior to joining our team, she was down the street at the University of Pittsburgh as a Department Coordinator. Lois earned her bachelor's degree from Carlow University.

Nicole Weaver, Administrative
Assistant, Employer Relations



Nicole is working in the interview center for the CPDC. Prior to joining our team, she was a school teacher in the Quaker Valley School District. Nicole earned her bachelor's degree in education from Edinboro University of Pennsylvania.

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FEATURED CPDC STAFF MEMBER

Doug Stouch,
Associate Director of
Early Engagement &
Assessment



How long have you been working with the CPDC?
5 years

Favorite part about working at the CPDC?

We have a healthy balance of autonomy and support in our work. My colleagues are dedicated and compassionate. And of course, our students are phenomenal and an absolute pleasure to work with.

Favorite thing about Pittsburgh?

Friendly people, amazing views, and the best sports! Go Steelers! Go Pens!

Interesting fact about yourself?

I was on the Coed Cheer team at Pitt and I'm currently an assistant coach for the team.

Spring 2023 Career Events

Carnegie Mellon University
Career & Professional
Development Center

jumpstart

jumpstart (In-Person)
January 30, 2023

Preceding the Encompass Career Fair, jumpstart is a special three-hour early engagement event that allows employers to connect with freshmen and sophomores to discuss internships available at your company.



Encompass Career Fair for All (Virtual & In-Person Options)
January 31, 2023 In-Person | February 2, 2023 Virtual

This exciting career fair will bring together arts, business, computer science, engineering, humanities, and science students in one location. Employers from all industries who are looking to fill numerous and varied roles will be in attendance. It's truly a career fair for everyone!



International Opportunities & Networking Virtual Event (Virtual)
February 15, 2023

The International Opportunities & Networking Virtual Event is for employers who have locations or employment opportunities available outside of the United States, and for the Carnegie Mellon University international student population. Many of these students are looking to start their careers or build relationships with companies who are within their home countries, and we invite all interested employers to participate.



Creative Arts Career Fair- Part of CAOC (In-Person)
February 16, 2023

The Creative Arts Opportunities Conference (CAOC) is an exciting week focused on connecting employers with our students interested in creative industries from the College of Fine Arts and beyond through opportunities including the Architecture Interchange, Design Confluence, and the Creative Arts Career Fair!



Energy Career Fair (In-Person)
March 21, 2023

This event is in partnership with Carnegie Mellon University's Energy week, the Energy Science technology & Policy Program, and the University of Pittsburgh. The career fair is tailored to employers in the energy sector who are interested in recruiting students for internships or full-time positions.



Engineering Virtual Career Fair (Virtual)
March 24, 2023

This is a great opportunity to engage with CMU students pursuing undergraduate and graduate degrees from the following departments and programs: Biomedical Engineering, Civil & Environmental Engineering, Chemical Engineering, Energy, Science, technology & Policy, Integrated Innovation for Products & Services, Mechanical Engineering, Physics, and Materials Science & Engineering.



UI/UX Fair (Virtual)
March 29, 2023

The Ui/UX Design Virtual Career Fair is primarily for undergraduate and graduate students studying Human-Computer Interaction and Design and are seeking roles in UI/UX. Employers interested in recruiting for these students are encouraged to join.

Register for all events in **handshake**

EMPLOYER WEBINAR SERIES

CMU Talent Insider Webinar Series



We would like to thank the hundreds of employers who have joined us the last three years for our quarterly employer webinars. These webinars have introduced you to the many programs and departments that represent Carnegie Mellon University. Due to the success of these sessions, we would like to introduce you to the **CMU Talent Insider!**

The CMU Talent Insider is an employer webinar series brought you by the Career & Professional Development Center at Carnegie Mellon University. This series will provide you and your team the opportunity to learn, connect, and engage with the numerous world-renowned programs that represent the 7 different colleges that make up CMU.

Registrations for each webinar and access to previous webinars are available on our [webpage!](#)

Diversity Recruiting @CMU

We have heard from many employers this year that diversity, equity, and inclusion is paramount to their recruiting strategy moving forward. The Career & Professional Development Center has taken the steps to help our employer population achieve this goal and connect with top diverse CMU talent. We would like to introduce you to our [Diversity Recruiting & Student Groups webpage!](#)

This page contains information such as:

- Student Groups
- Identity Resources
- Statistics
- And more...

ELEVATE YOUR BRAND

Become a career partner!



Help our students reach their life potential; [become a Carnegie Mellon University Career Partner.](#)

The Carnegie Mellon University Career Partner program was established to recognize employers who support our innovative programs and initiatives and invest in the professional development of our students and alumni.

Your generous contribution is appreciated and recognized by students, faculty, staff, and parents within the university community throughout the academic year. As a Carnegie Mellon Career Partner, your contribution will help us assist students with each phase of their career and professional development. You will also receive benefits associated with being a partner. Varying partnership levels are available.

For more information on how to become a Corporate Partner, please contact the Employer Relations office at 412.268.2066 or erelate@andrew.cmu.edu.

Thank you for a great year!

Please visit our employer toolkit online which includes information on posting jobs, recruiting guides, timelines, events, statistics, and more...

<https://www.cmu.edu/career/employers/index.html>

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Career & Professional Development Center

Corporate Partners 2022

Platinum Level



Gold Level



Silver Level



Bronze Level



*As of 12/1/2022