

North America Championship

Recruiting Talent to Impact the Future of Computer Science



Challenge

The United States faces a global competitiveness crisis in computer science. If unaddressed, the U.S. will be facing 1.8 million unfilled technical jobs in a few years and lack the organic capability to counter foreign cyber aggression.

Computer science talent must be developed to:

- Advance the U.S. economy
- Enhance the U.S. ability to lead in areas of technological importance
- Protect National Security

The International Collegiate Programming Competition (ICPC), and UCF are collectively working to raise the visibility of computing talent through North America computing competitions (North America Championship and related programming camps (North America Programming Camp).



Top ranked countries with best computer programmers

1. China
2. Russia
3. Poland
4. Switzerland
5. Hungary
6. Japan
7. Taiwan
8. France
9. Czech Republic
10. Italy
- 28. United States**



The International Collegiate Programming Contest (ICPC)

What is ICPC:

- Algorithmic programming contest for college students
- Teams of three, representing their university, work to solve the most real-world problems, fostering collaboration, creativity, innovation, and the ability to perform under pressure.
- Through training and competition, teams challenge each other to raise the bar on the possible.
- The oldest, largest, and most prestigious programming contest in the world.
- ICPC is the premier global programming competition conducted by and for the world's universities.
- The ICPC is affiliated with the ICPC Foundation and is headquartered at Baylor University.



Raising Visibility through North America Championship Career Fair Memberships

- 400+ universities, 3,000+ computing students compete in US and Canada ICPC Regionals
- 50 teams advance to the North America Championship (NAC)
- NAC offers an in-person Career Fair with NAC teams and coaches for NAC Sponsors
- **NEW: Offer annual Virtual Career Fairs (VCF) in fall and spring with Regional teams and coaches for NAC VCF Annual Members**
- **WHY?:** Raise ICPC visibility and cover NAC/NAPC and possibly Regional Competition costs.
- **How do we create this membership opportunity?**
- **How do we attract members?**
- **What should we charge annually and at what tiers?**
- **Whom do we contact? HR? Recruiters? Managers? Executives?**

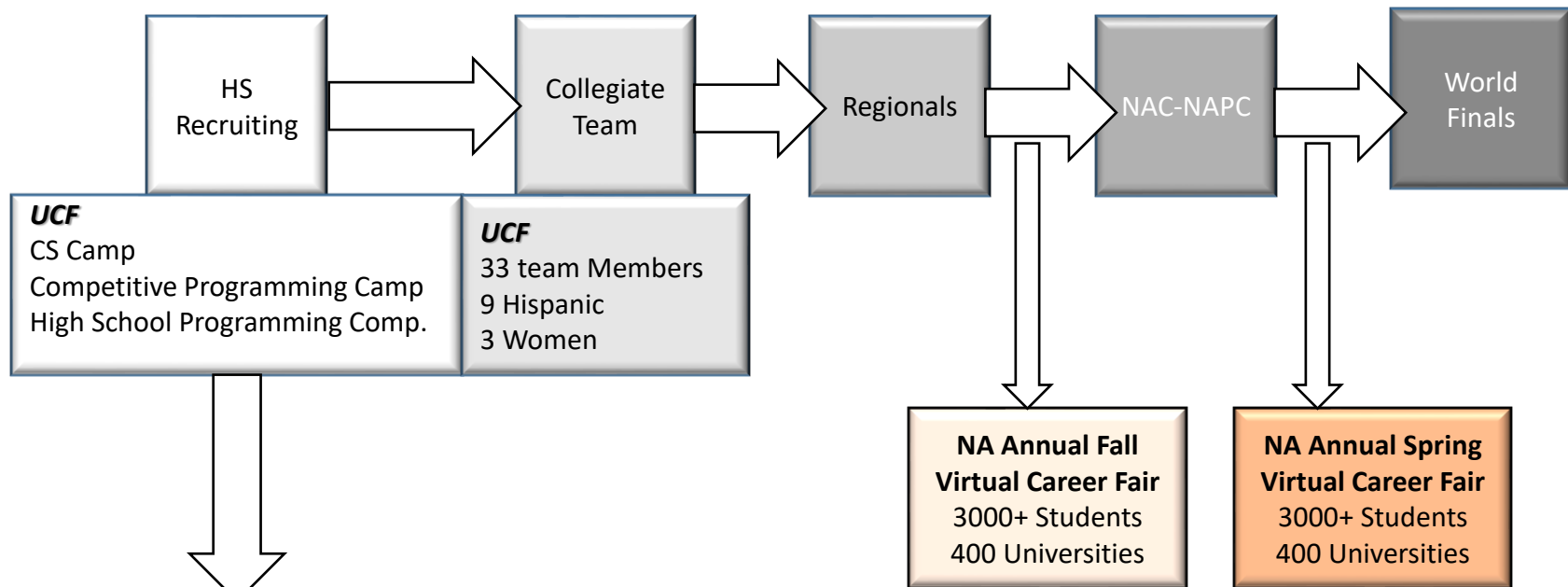


2022 North America Contest & Programming Camp (NAC-NAPC) Participating Institutions

- Brigham Young
- California Institute of Technology
- Carleton College
- Carnegie Mellon University
- Colorado School of Mines
- Columbia University
- Cornell University
- Drexel University
- Emory University
- Georgia Institute of Technology
- Harvard University
- Iowa State University
- Lafayette College
- Massachusetts Institute of Technology
- Milwaukee School of Engineering
- New York University
- North Carolina State
- Northeastern
- Purdue University
- Rice University
- Rutgers University
- Simon Fraser
- Stanford
- Swarthmore College
- Texas A&M University
- Troy University
- University of Alberta
- University of British Columbia
- University of Calgary
- University of California Berkeley
- University of California San Diego
- University of California Los Angeles
- University of Central Florida
- University of Chicago
- University of Illinois at Urbana Champaign
- University of Kentucky
- University of Maryland
- University of Michigan at Ann Arbor
- University of Minnesota – Twin Cities
- University of Rochester
- University of Southern California
- University of Texas Austin
- University of Texas Dallas
- University of Toronto
- University of Virginia
- University of Washington
- University of Waterloo
- University of Wisconsin - Madison
- Vanderbilt



Computing Talent Pipeline



Universities recruit from their high school contests:

<https://hspt.ucfprogrammingteam.org/index.php/hspt/participating-teams>

Universities recruit from individual competitions:

<https://hspt.ucfprogrammingteam.org/hsptFiles/score2122Online-Div1.html>

Computing Pipeline: connect and use events as springboard of supporting a robust and ever-expanding pipeline of students (middle school, high school) with a strong interest in computing



Back-up Slides



NA East Central Regional		
Brock University	Denison University	Pennsylvania State University
Fanshawe College	DePauw University	Saginaw Valley State University
McMaster University	Duquesne University	Slippery Rock University
Queen's University	Edinboro University of Pennsylvania	The College of Wooster
Ryerson University	Grand Valley State University	The Ohio State University
The University of Western Ontario	Grove City College	University of Akron
University of Toronto	Indiana State University	University of Cincinnati
University of Toronto Scarborough	Indiana University Bloomington	University of Dayton
University of Waterloo	Indiana University South Bend	University of Michigan at Ann Arbor
University of Windsor	Kalamazoo College	University of Michigan-Dearborn
York University	Kenyon College	University of Notre Dame
Ashland University	Miami University	University of Pittsburgh
Capital University	Michigan State University	Western Michigan University
Case Western Reserve University	Oberlin College	Wright State University
Cedarville University	Ohio State University	Youngstown State University
Central Michigan University	Ohio Wesleyan University	
Cleveland State University	Otterbein University	

Greater New York	
Binghamton University	Sacred Heart University
Columbia University	Southern Connecticut State University
Cornell University	St. John's University
Drexel University	Stern College for Women
Hofstra University	Stevens Institute of Technology
Hunter College of the City University of New York	SUNY Stony Brook
Iona College	Swarthmore College
Manhattan College	The College of New Jersey
Mercy College	Touro College
New Jersey Institute of Technology	Union College
New York University	University of Bridgeport
Polytechnic University	University of New Haven
Princeton University	Wagner College
Queens College - CUNY	Yale University
Rutgers University	Yeshiva University

Mid Atlantic			
Appalachian State University	King's College	Shepherd University	University of Virginia
Arcadia University	Kutztown University	Shippensburg University	Villanova University
Bucknell University	La Salle University	Susquehanna University	Virginia Commonwealth University
Christopher Newport University	Lafayette College	Thaddeus Stevens College	Virginia Tech
College of William and Mary	Lebanon Valley College	The George Washington University	Virginia Wesleyan College
Davidson College	Lehigh University	The Johns Hopkins University	Wake Forest University
Dickinson College	Liberty University	United States Naval Academy	Washington College
Duke University	Messiah College	University of Delaware	West Chester University
Eastern Mennonite University	Millersville University	University of Mary Washington	West Virginia University Institute of Technology
Elizabethtown College	Morgan State University	University of Maryland	Wilkes University
Elon University	North Carolina State University	University of North Carolina	Winston-Salem State University
Fayetteville State University	Northampton Community College	University of North Carolina at Asheville	
George Mason University	Penn State Harrisburg	University of North Carolina at Chapel Hill	
George Washington University	Ranford University	University of North Carolina at Charlotte	
Gettysburg College	Randolph-Macon College	University of North Carolina at Greensboro	
High Point University	Rowan University	University of Richmond	
James Madison University	Saint Joseph's University	University of Scranton	

Mid Central		
Augustana College	Morehead State University	University of Arkansas
Austin Peay State University	Murray State University	University of Arkansas Fort Smith
Bradley University	Northern Kentucky University	University of Central Arkansas
College of Lake County	Northwestern University	University of Chicago
Concordia University Chicago	Ouachita Baptist University	University of Evansville
Depaul University	Park University	University Of Illinois - Chicago
Eastern Kentucky University	Purdue University	University of Illinois at Urbana-Champaign
Harding University	Rhodes College	University of Kentucky
Hendrix College	Rose-Hulman Institute of Technology	University of Louisville
Illinois Institute of Technology	Saint Louis University	University of Memphis
Illinois Wesleyan University	Southeast Missouri State University	University of Missouri - Columbia
Indiana University Southeast	Southern Arkansas University	Vanderbilt University
Knox College	Southern Illinois University Edwardsville	Washington University in St. Louis
Lipscomb University	Southwest Baptist University	Webster University
Maryville College	Tennessee Technological University	Western Kentucky University
Missouri University of Science and Technology	The University of Tennessee at Martin	

North Central			
Algoma University College	Creighton University	Missouri Western State College	University of Nebraska - Omaha
Brandon University	Dakota State University	North Dakota State University	University of Nebraska at Kearney
University of Manitoba	Doane College	Northern Michigan University	University of North Dakota
University of Winnipeg	Dordt College	Northwest Missouri State University	University of Northern Iowa
Augsburg University	Drake University	Northwestern College	University of Wisconsin - LaCrosse
Augustana University	Graceland University	Saint John's University	University of Wisconsin - Madison
Baker University	Gustavus Adolphus College	Simpson College	University of Wisconsin - Oshkosh
Bemidji State University	Iowa State University	South Dakota School of Mines and Technology	University of Wisconsin - Platteville
Bethel University	Kansas State University	Southwest Minnesota State University	University of Wisconsin - River Falls
Briar Cliff University	Kansas State University - Salina	St. Ambrose University	University of Wisconsin - Stevens Point
Buena Vista University	Lake Superior State University	St. Cloud State University	UW Oshkosh Fox Cities
Carleton College	Luther College	St. Olaf College	
Central College	Macalester College	The University of South Dakota	
Coe College	Marquette University	University of Iowa	
Concordia College	Michigan Technological University	University of Minnesota - Morris	
Concordia University, Nebraska	Milwaukee School of Engineering	University of Minnesota - Twin Cities	
Cornell College	Minnesota State University Moorhead	University of Nebraska - Lincoln	

North East	
Acadia University	Harvard University
Concordia University - Canada	Massachusetts Institute of Technology
Dalhousie University	Middlebury College
McGill University	Northeastern University
Mount Allison University	Providence College
Saint Mary's University	Rensselaer Polytechnic Institute
St. Francis Xavier University	Rochester Institute of Technology
Université de Moncton	Siena College
University of New Brunswick at Fredericton	St. Lawrence University
University of New Brunswick Saint John	State University of New York at Buffalo
University of Prince Edward Island	State University of New York at Oswego
Boston University	SUNY College at Fredonia
Brandeis University	The Cooper Union for the Advancement of Science and Art
Bridgewater State College	University at Buffalo - State University of New York
Brown University	University of Massachusetts - Boston
Carnegie Mellon University	University of Rhode Island
CICS UMass-Amherst	University of Rochester
Hamilton College	

Pacific Northwest		
Port Moody Secondary School	DigiPen Institute of Technology	The Overlake School
Simon Fraser University	Eastern Washington University	Umpqua Community College
Thompson Rivers University	Foothill College	University of California - Santa Cruz
Trinity Western University	George Fox University	University of California at Berkeley
University of British Columbia	Gonzaga University	University of California Davis
University Of British Columbia Okanagan	Hawaii Pacific University	University of Hawaii - Hilo
University of Northern British Columbia	Lewis & Clark College	University of Hawaii - Manoa
University of Victoria	Linfield College	University of Idaho
Brigham Young University - Hawaii	North Idaho College	University of Oregon
California State University - Chico	Oregon State University	University of Portland
California State University - Sacramento	Pacific Lutheran University	University of Puget Sound
California State University, Monterey Bay	Pacific University	University of Washington
Cogswell College	San Jose State University	University of Washington Tacoma
De Anza College	Seattle Pacific University	Western Washington University
Diablo Valley College	Seattle University	Whitworth University

Rocky Mountain	
Lethbridge College	Colorado State University
University of Alberta	Montana State University - Bozeman
University of Calgary	Montana Tech of the University of Montana
University of Lethbridge	The University of Montana
University of Saskatchewan	United States Air Force Academy
Brigham Young University	University of Arizona
Colorado College	University of Colorado Denver
Colorado Mesa University	University of North Texas
Colorado School of Mines	University of Utah

South Central	
Angelo State University	Texas Christian University
Baylor University	The University of Texas at Arlington
Lamar University	The University of Texas at Austin
LeTourneau University	The University of Texas at Dallas
Louisiana State University	The University of Texas at San Antonio
McNeese State University	The University of Texas at Tyler
Midwestern State University	Trinity University
North American University	University of Dallas
Oklahoma Christian University	University of Houston
Rice University	University of Houston-Clear Lake
Southeastern Louisiana University	University of Houston-Victoria
Southeastern Oklahoma State University	University of Oklahoma
Southwestern University	University of Tulsa
Texas A&M University	

Southeast		
Auburn University	Georgia State University	University of Florida
Auburn University Montgomery	Kennesaw State University	University of North Alabama
Augusta University	Lander University	University of North Florida
Bob Jones University	Mercer University	University of North Georgia
Charleston Southern University	Miami Dade College	University of South Alabama
Clemson University	Morehouse College	University of South Carolina
College of Charleston	Nova Southeastern University	University of South Carolina Beaufort
Emory University	Samford University	University of South Florida
Florida Institute of Technology	The Citadel, The Military College of South Carolina	University of West Florida
Florida International University	The University of Georgia	Valdosta State University
Florida Southern College	Troy University	Winthrop University
Florida State University	University of Alabama at Tuscaloosa	Wofford College
Georgia Institute of Technology	University of Central Florida	

Southern California		
Arizona State University	California State University - San Marcos	University of California Irvine
Azusa Pacific University	College of the Desert	University of California Los Angeles
California College San Diego	Harvey Mudd College	University of California Riverside
California Institute of Technology	Loyola Marymount University	University of California San Diego
California Lutheran University	Moorpark College	University of California Santa Barbara
California State Polytechnic University - Pomona	Mount San Antonio College	University of Nevada Las Vegas
California State University - Channel Islands	Orange Coast College	University of Redlands
California State University - Dominguez Hills	Riverside Community College	University of San Diego
California State University - Fullerton	Saddleback Community College	University of Southern California
California State University - Long Beach	Santa Barbara City College	

THANK YOU

