



What is NANOG?

- We are a community-driven nonprofit organization.
- •Our roots date back to 1987, when Merit Network was tasked with re-engineering and managing the NSFNET.
- NANOG's original charter was formed in 1994.
- In 2011, the NANOG community voted for independence from Merit Network.
- NANOG was the first, and is still the largest, Network Operators' Group.



What does NANOG do?

- Conferences that showcase innovative, educational content that aims to drive new solutions to the networking community's greatest challenges.
- Mentoring the next generation of networking professionals.
- Empowering those supporting Internet access in underserved communities across North America.
- Actively encouraging diversity, inclusion, and collaboration within our community.



Our community

13,000+ industry professionals and students.

1,000+ attend NANOG conferences.

200+ are first-time attendees.

20+ countries around the world represented.





What's a NOG?

- Community organizations committed to supporting local and regional Internet professionals.
- Guided by the principle of an open exchange of knowledge and expertise.
- Formed by network operators, engineers, and other experts in the Internet community.
- Efforts that improve the quality and availability of the Internet within their regions.



What's special about NOGs?

- •They're driven by individuals, not corporations all are equal.
- •They're educational technical presentations are available to all.
- •They're local designed to focus on the needs within their communities.
- •They're neutral non-commercial, and non-political.



How can you benefit from NOGs?

- Learn current best practices from experienced industry professionals.
- Obtain knowledge and training on the latest Internet technologies.
- Discuss current issues and challenges faced by the community.
- Form strategic business relationships.
- Form crucial peering arrangements.



NANOG Resources

- NANOG Mailing List: https://mailman.nanog.org/mailman/listinfo/nanog
- Conference presentations + tutorials: https://www.youtube.com/user/TeamNANOG/
- Outreach:
 https://www.nanog.org/outreach/
- Articles: https://www.nanog.org/stories/



Industry Job Facts

- 383,000 people are employed in the field of network operations.
- Yet there are currently 29,392 unfilled network engineering jobs on indeed.com.
- It will increase by an additional 19,000+ each year.
- The industry competes with 700,000 open tech jobs.
- There are currently close to 3.5 million unfilled jobs in the field of cybersecurity.





Board of Directors



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Shawn Winstead Bus. Development Specialist



Valerie Wittkop Program Director



NANOG Committees

- Program Committee (standing)
- Elections Committee
- Audit Committee
- Compensation Committee
- Mentorship Committee
- Education Committee
- Scholarship Committee





Program Committee

- The Program is the very heart of NANOG.
- Made up of industry professionals, the PC is selected by the board.
- The PC self organizes and selects its own leadership.
- •The PC reviews and selects talks submitted by NANOG's community to curate a program of the highest possible quality and relevance.



Program Committee Updates

- In an effort to better serve our community, the PC has several sub-committees:
 - Keynote Speakers
 - Women in Tech
 - Outreach Programs

- Lightning Talks
- Tutorials & Tracks
- Hackathon
- This allows committee members with various types of expertise to focus their knowledge on specific areas important to the development of NANOG programming.



Get involved on a broader scale

Participating on a broader scale helps ensure our future generations will get to enjoy the same benefits you have.

Ways to get involved at NANOG:

- Vote: Become a member to help shape NANOG's future.
- Mentor: The next generation of network engineers.
- **Teach:** The best way to reinforce your knowledge is to teach others.
- Present: Share your knowledge and experience with others.
- Evaluate: Serve on the Program Committee to help shape the NANOG program.
- **Sponsor:** Support NANOG's education and outreach programs, meetings and events.





What's NANOG Outreach?

Education is central to NANOG's mission. Through outreach to colleges and universities, affiliate NOGs, and more remote tech communities, we're able to provide greater access to NANOG's tools, resources, and educational programming, which is designed and taught by industry professionals committed to the ongoing advancement of the Internet in North America.



What is our focus?

NANOG Outreach programs are focused on three distinct areas of need:

- Industry education for networking professionals.
- Educational and career development for college + graduate students.
- Training within underserved regions of North America.





NANOG 2021 Scholarships Recipients

Abha Ahuja Scholarship – \$10,000

- Emma Beeler, University of Alaska Fairbanks. Major: Electrical Engineering.
- Lyndsey Tribbitt, University of Florida. Major: Computer Science.

John Postel Scholarship – \$10,000

- Jon Cowart, Penn State University Park. Major: Electrical Engineering.
- Brandon Staple, University of Colorado Denver. Major: Computer Science.



NANOG College Immersion (NCI) students

 NCI was designed to give educators the opportunity to sponsor up to 5 students at a NANOG conference.

- Three universities in attendance at NANOG 77:
 - University of Colorado Boulder: 5 students + 1 professor
 - Ball State University: 5 students + 1 professor
 - o George Mason University: 5 students + 1 professor





Educational Program

- Vender-neutral courses developed and taught by knowledgeable Internet professionals.
- All courses are vetted by a committee of industry professionals; to assure that all content is relevant to current industry working standards.
- The courses are designed to aid students, junior engineers and career professionals advance their skills in a competitive marketplace.



Mentorship Program

- Key to building the "Internet of tomorrow" is to engage and inspire those who will build tomorrow's Internet.
- Mentorship is an essential component of professional development.
- Mentees in our program will have the opportunity to be guided by seasoned industry professionals.
- Mentors and mentees will be paired at NANOG conferences, create a personalized mentorship program to help the mentee achieve their goals.





Keynote Speakers



"Geeky Entrepreneur" + Seasoned Government Intelligence Cybersecurity Pro Bert Hubert



John Brzozowski, Chief Technology Officer & Vice President, Product Engineering & Infrastructure

Featured Presentations

- Famous Internet
 Outages Panel
- Security
- IPv6
- Automation
- Networking Sessions
- Women in Technology

- Members Meeting
- Board Candidate Session
- Community Meeting
- Lightning Talks
- and more...



Peering Coordination Forum

- The Peering Coordination Forum is 90-minutes in length.
- The forum provides time for attendees to meet and network with others in the peering community present at NANOG.
- The peering forum is a round-robin event that can be described as "speed dating" for network peering.



NANOG Social Event

Lumber Exchange Event Center 10 S. 5th Street Minneapolis, MN. 55402

Tonight from 7p – 10p





