

May 22, 2017



# NCSU / IBM Partnership

Steven W Hunter, PhD, PE  
IBM Fellow

Also (full disclosure), NCSU - Alumni, Husband, Parent, Faculty  
Exec Sponsor for NCSU/IBM Pathfinder and DiscoverE Programs

The NC State University logo, featuring the text "NC STATE UNIVERSITY" in white, bold, sans-serif capital letters on a red rectangular background.

**NC STATE**  
UNIVERSITY



## Hiring:

2012: 141      2014: 122

2013: 175\*    2015: 106

TOTAL: 544



\* IBM named 2013 Recruiter of the Year by the NC State Poole College of Management

## Alumni:

Employees: 760


Executives: 31



## Other:

Mentors, Faculty, Parents

## Partnership:

- Extreme Red
- SUR Hardware Awards / Faculty Awards / PhD Fellowships (since 1984) + IBM Donations
- Major partners:
  - College of Engineering
  - College of Management
  - College of Education / Friday Institute
- Strategic Projects
  - Cloud Virtual Computing Lab 
  - vCentennial and Internet2 Research
- Big Data on PowerLinux, NexGen IT, IAA, SOSI, FREEDM
- IBM@edu: NCSU Education Collaboration Center
- [Entrepelooza](#)
- [NCSU/IBM Pathfinder](#) Mentoring Program

## Virtual Computing Lab



- VCL project development started in 2003
- NCSU production use started in 2004
- Support for both HPC & non-HPC workloads
- VCL available to 30,000+ NCSU student and faculty, and 250,000 plus in NC
- Has utilized multiple IBM products, including the BladeCenter initially with over 2000 blades
- Delivers over 460,000 CPU hours to general reservations (desktops, sub-clouds, classroom, etc.) annually, and over 7,000,000 HPC CPU hours.
- Provided IBM developers access to evaluate design and performance under real workload conditions
- Other products included later, such as POWER Systems, Spectrum Products, etc.

## NCSU/ IBM Education Collaboration Center

- Will be the place where students, faculty and IBM experts can go to collaborate on projects while using all of the products and service that IBM has to offer.
- “We seek to collaborate with NC State (and academia generally) on solutions that will make a difference in the world and to absorb the creativity and energy from the students as we transform IBM development,” IBM NC Senior State Executive Fran O’Sullivan said.
- “The new IBM Education Collaboration Center on Centennial Campus is especially exciting as it builds upon the longstanding R&D collaborations between IBM and NC State,” associate vice chancellor Dennis Kekas said. “It will enable a new level of student-centric engagement to help solve tomorrow’s grand challenges.”

- Provide students some insight into professional life to better prepare themselves while at school
- Provide IBM insight into potential Early Professional Hire candidates
- Professionals meet with students approximately monthly to discuss career experiences, technical job trends, answer questions, provide insight to engineering profession
- One school year duration - the student and advisor can continue the relationship longer if they choose
- Visits and lab tours to give students a view of what goes on at IBM
- Two-way feedback - hear from student how to improve the program
- For students in Electrical Engineering , Computer Engineering, Computer Science, Technical Communications, and Graphics/Industrial Design, MBA, Supply Chain, Business.
- <https://www.ibm.ncsu.edu/pathfinder>



**IBM - NCSU Pathfinder Mentoring Program**  
*Providing students with insight into professional life to better prepare them while in school*

**Hardware Engineering**  
**Software Engineering**  
**Technical Communications**  
**Human Factors**  
**Graphic Design**  
**New Media Design**  
**Industrial Design**

Google+ Facebook

#ncsupathfinder #ibm #IBMOnCampus  
[ibm.ncsu.edu/pathfinder](https://www.ibm.ncsu.edu/pathfinder) [ibm.ncsu.edu/pathfinder](https://www.ibm.ncsu.edu/pathfinder)

## 2016–2017 Activities

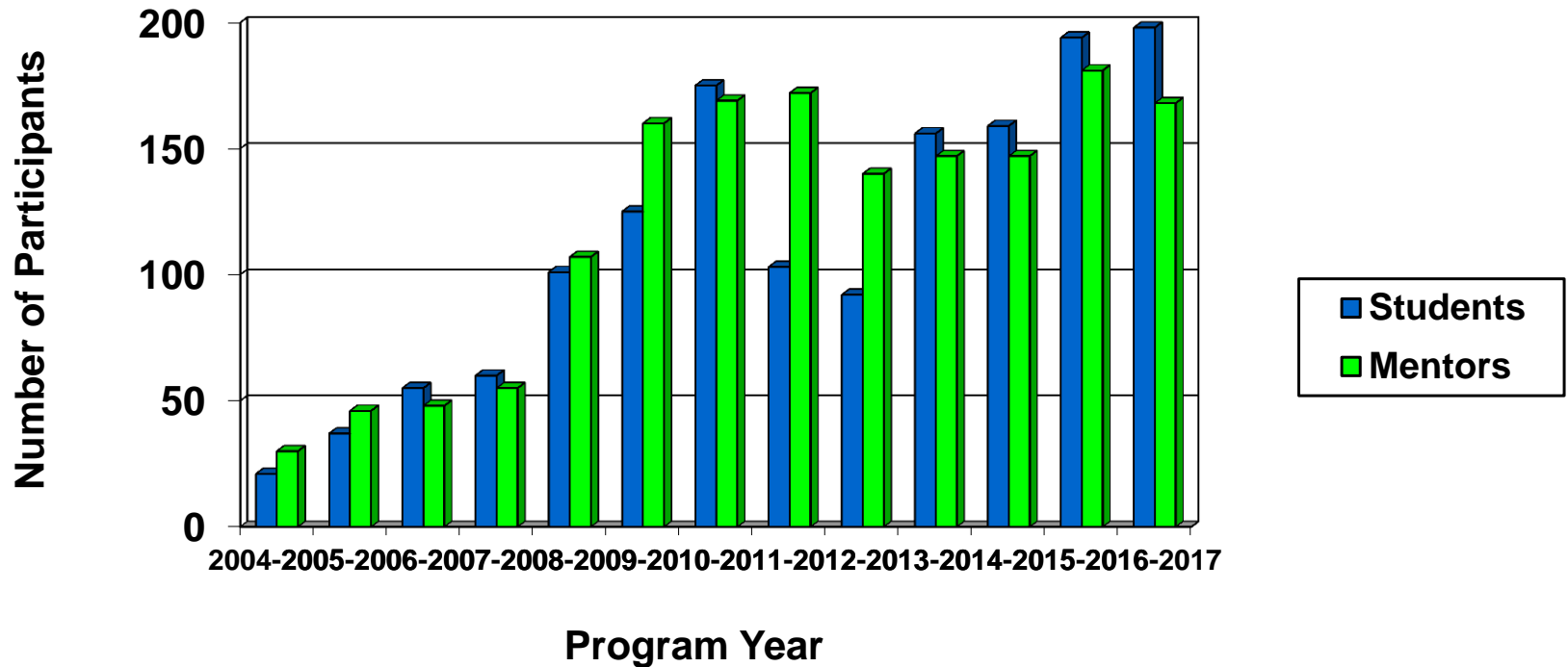
- Student Organization Presentations at NC State
  - August 15 – Technical Communications SIGDOC
  - August 23 – Supply Chain students
  - August 25 – Engineering School Welcome Back Bash
  - August 30 – Business School IT Club
  - September 7 – AISES, NSBE, SHPE, WiCs, SWE Meeting
  - September 8 – Jenkins Graduate School of Business students
  - September 12 – Engineers Council
  - September – NC State College of Design (Industrial and Graphics)
- Meet Your Mentor at NC State/Networking Event (September 28, 29)
- One-on-one meetings between students and advisors
- Resume Session (October)
- IBM Site Visit (October)
- Early Career Panel Discussion (November)
- Technical Speaker (November)
- Job Shadow Month (January)
- IBM Site Visit (January)
- Professional Development Speaker (January)
- Executive Career Panel Discussion (January)
- Mock Interview Session (February 16, 17)
- Technical Speaker or Team Event (March)



# Interactive Group Events Added to Mentoring Experience



## Participants per Year



## **NCSU students and IBM professionals within the disciplines of:**

- **Hardware Engineering**
  - Electrical, Mechanical, etc.
- **Software Engineering**
  - Computer Science, Computer Engineering, etc.
- **Technical Communications**
  - Technical Writers, Web designers, etc.
- **Human Factors**
- **Graphic and New Media Design**
  - Graphic, Animation, New Media, etc.
- **Industrial Design**
- **Supply Chain**
- **Business/MBA**





## Mentor +5

- Advice from a professional in my field +9
- Regular interactions +4
- 1x1 face-to-face meetings +5
- Networking

## Program

- Inspiration from others in the program +2

## IBMers +3

- Responsibilities of a manager
- Understanding projects from customer requirements through delivery +1
- Learning about IBM +1

## The Industry

- Industry knowledge +1

## Events +3

- Resume Session +1
- Mock Interview +8
- BlueMix/Blockchain
- Executive Panel +2
- Early Career Panel
- Design Thinking Workshop +1
- Job Shadowing +1
- Leadership Data Center

