NC STATE UNIVERSITY

Open Rank Tenured/Tenure-Track Faculty Position
In Digital Forensics (College of Engineering)

As part of the **Chancellor's Faculty Excellence Program**, NC State University seeks a digital forensics scholar to join the **Forensic Sciences** cluster. The digital forensics position is an open rank tenured/tenure track position, will begin in August 2017 and is targeted for the College of Engineering's Department of Computer Science or Department of Electrical and Computer Engineering. We seek innovative and transformative academic leaders whose scholarship will advance NC State's position as one of the premier universities of its kind. The Forensic Sciences cluster builds on a nationally leading, campus-wide strength in forensics anthropology, entomology, chemical, fiber and polymer/materials analysis and DNA-based forensic tools (http://facultyclusters.ncsu.edu/clusters/forensic-sciences/).

About the Cluster

Forensic Science is a multidisciplinary profession with the common goal of providing pragmatic results and analysis supporting the judicial system. The Forensic Sciences cluster was established in 2013 with three hires and is currently seeking additional hires to expand the work of the cluster. A particular focus at this time is to grow a national and international interdisciplinary strength in Safety and Security. Two new positions have been established to support the growth of the cluster. They are: (1) an animal forensics scientist (College of Veterinary Medicine) and (2) **a digital forensics engineer (College of Engineering)**.

About the Position

We seek a scientist with a nationally recognized high-impact research program in digital forensics, recognized as a pioneering leader in the development of new digital forensics initiatives. We are flexible and open to any strong candidates in digital forensics, including the following areas: facial and voice recognition, biometric identification, image and video analysis, steganography, digital information authenticity, provenance, forgery and tampering detection, analysis of device memory and storage, analysis and correlation of log files, database transactions, and network traffic, as well as collection, preservation, and analysis of email, social networks, web pages, location data, contact lists, phone logs, images, etc. The criminal justice and intelligence communities are developing tools, measurement methods, standards, and data to support forensic analysis of digital evidence. A video describing some aspects of digital forensics may be found at https://youtu.be/cX0KCnOX8d0, created by the American Academy of Forensic Sciences.

Minimum requirements include an earned doctorate in a relevant technical field. Priority will be given to candidates that have demonstrated interdisciplinary collaborations that cut across academic units. The candidate will be expected to build and maintain an extramurally funded research program and also play a leadership role in the NC State Forensics program appropriate to their rank and experience. The candidate should have a strong capacity to teach at both the undergraduate and graduate levels, including the capacity to mentor masters and doctoral students as well as postdoctoral fellows. Preference will be given to dynamic individuals with strong interpersonal skills and with demonstrated leadership skills.

Applications providing a cover letter, curriculum vita, a research statement and a teaching statement are accepted through our online system at https://jobs.ncsu.edu/postings/75857 and will be reviewed on December 1, 2016. Additional documents may be requested of candidates who advance in the process.

Confidential inquiries and nominations should be directed to:
Dr. Douglas Reeves (reeves@ncsu.edu)

Cluster Search Committee

Ron Baynes (Population Health and Pathobiology)
Nelson Vinueza Benitez (Textile Engineering, Chemistry and Science)
Matthew Breen (Molecular Biomedical Sciences)
Seth Faith (Molecular and Biomedical Sciences)
Kelli Ferris (Clinical Sciences)
Chelsey Juarez (Sociology and Anthropology)
Hamid Krim (Electrical and Computer Engineering)
Douglas Reeves (Computer Science)
Ann Ross, **cluster lead** (Biological Sciences)
Wes Watson (Entomology and Plant Pathology)

Forensic Sciences-related research and facilities at NC State:

Forensics Science Institute: https://fsi.ncsu.edu/
Department of Computer Science: http://www.csc.ncsu.edu
Wolfpack Security and Privacy Research Lab: http://wspr.csc.ncsu.edu/index.html
Department of Electrical and Computer Engineering: http://www.ece.ncsu.edu
Communications and Signal Processing Research: http://www.ece.ncsu.edu/research/csp

The Chancellor's Faculty Excellence Program

The Chancellor's Faculty Excellence Program, launched in 2011, is recruiting some of the best and brightest minds to join NC State's community of world-leading faculty at the forefront of this initiative. Guided by a strong strategic plan and an aggressive vision, new thematic clusters are adding over 75 new faculty members in 20 select fields to enhance the breadth and depth of NC State's solution-driven research and innovation. The current 20 clusters have been selected on several important criteria:

- Ability to achieve national eminence in proposed topic
- Alignment with university strategic priorities
- Demonstration of real interdisciplinarity
- Potential to build on an existing university strength (or strength of the existing assets)
- Opportunity for faculty to engage in both research and teaching of proposed topic
- Ability to attract funding
- Commitment to share resources and physical infrastructure
- Inclusion of multiple colleges
- Demonstration of a balanced hiring plan with clear leadership
- Potential to attract diverse faculty

The Chancellor's Faculty Excellence Program is managed through the Office of the Provost. Using a faculty initiated proposal process, twelve clusters were announced in February 2012 and eight in April 2015.

- Bioinformatics
- Carbon Electronics
- Data-driven Science
- Digital Transformation of Education
- Emerging Plant Disease and Global Food Security
- Environmental Health Science
- Forensic Sciences
- Genetic Engineering and Society
- Geospatial Analytics
- Global Environmental Change and Human Well-Being
- Global Water, Sanitation and Hygiene
- Innovation + Design
- Leadership in Public Science
- Microbiomes and Complex Microbial Communities
- Modeling the Living Embryo
- Precision Medicine
- Sustainable Energy Systems and Policy
- Synthetic and Systems Biology
- Translational Regenerative Medicine
- Visual Narrative

To date, fifty-five (55) new faculty have been hired via the Chancellor's Faculty Excellence Program. In addition to bringing outstanding new faculty to campus and moving NC State toward national eminence, the Chancellor's Faculty Excellence Program has seeded and nurtured an expanding culture of interdisciplinarity on campus. We invite you to explore more information about the Chancellor's Faculty Excellence Program and this cluster at https://facultyclusters.ncsu.edu.

About NC State University

NC State was founded with a purpose: to create economic, societal and intellectual prosperity for the people of North Carolina and the country. We began as a land-grant institution teaching the agricultural and mechanical arts. Today, we're a pre-eminent research enterprise that excels in science, technology, engineering, math, design, the humanities and social sciences, textiles and veterinary medicine.

NC State students, faculty and staff take problems in hand and work with industry, government and nonprofit partners to solve them. Our 34,000-plus high-performing students apply what they learn in the real world by conducting research, working in internships and co-ops, and performing acts of world-changing service. That experiential education ensures they leave here ready to lead the workforce, confident in the knowledge that NC State consistently rates as one of the best values in higher education.

Each year, NC State adds $6.5 billion to the statewide economy, equivalent to creating more than 90,000 new jobs. That represents significant return on investment for the citizens of North Carolina in the form of research advances, innovative technologies, successful companies, skilled graduates and new jobs waiting for them.

Our 9,000 faculty and staff are world leaders in their fields, bridging the divides between academic disciplines and training high-caliber students to meet tomorrow's challenges. Together, they forge powerful partnerships with government, industry, nonprofits and academia to remake our world for the better.

NC State is leading efforts to curb nuclear proliferation, develop a smart electric grid, create self powered health monitors, help farmers confront climate change and build a new American manufacturing sector. Our award-winning Centennial Campus is home to more than 70 public and private partners — as well as the innovative Hunt Library, which Time magazine has dubbed "the library of the future."

Raleigh and the Community

It all happens in one of the fastest-growing urban centers in America. A top spot for young professionals and families, Raleigh is nationally recognized as a city on the rise:

- No. 1 among the best places for business and careers (Forbes, 2014)
- No. 1 among U.S. cities attracting the most families (Forbes, 2014)
- No. 2 among America's 15 best cities for young professionals (Forbes, 2014)
- No. 3 among the best midsize U.S. metro areas for college students (American Institute for Economic Research, 2014)
- Recently selected as a Google Fiber expansion city

With Durham and Chapel Hill, Raleigh anchors the Research Triangle, a national hotspot for high-tech enterprise. The top companies in the region — including IBM, Cisco Systems, SAS Institute, Biogen Idec and GlaxoSmithKline — are among the country's best employers. They also lead the way in hiring new NC State graduates.

More than 125 years after its creation, NC State continues to make its founding purpose a reality. Every day, our career-ready graduates and world-leading faculty make the fruits of learning and discovery available to people across the state, throughout the nation and around the world.

For More Information:

NC State University at https://www.ncsu.edu/
NC State: Think and Do at https://www.ncsu.edu/think-and-do
NC State's Strategic Plan at https://strategicplan.ncsu.edu/pathway-to-the-future/
NC State's Commitment to Diversity at http://oied.ncsu.edu/diversity/chancellors-statment-on-diversity/