

## Open Rank Cluster Faculty Positions in Global Water, Sanitation, and Hygiene (Global WaSH)

As part of the **Chancellor's Faculty Excellence Program**, North Carolina (NC) State University seeks candidates for four tenured or tenure-track faculty positions to provide key leadership in the **Global Water, Sanitation, and Hygiene (Global WaSH)** Faculty Cluster. We seek innovative and transformative academic leaders whose scholarship will advance NC State's position as one of the premier universities of its kind. These hires will build on a nationally leading, campus-wide strength in multidisciplinary water and environmental research, education, and outreach that can be harnessed to develop scalable water and sanitation solutions in underserved areas around the world.

### About the Cluster

**The aim of Global WaSH is to position NC State as a leading university in the US conducting critical research and teaching in vital and complex water and sanitation issues.** The research and teaching will be inspired and anchored on community-based projects located in developing countries. The focus will be on exciting, innovative, and novel scholarship that reflects the realities and complexities of resource constraints, human aspirations, and culture in developing countries. The Global WaSH cluster will comprise a group of highly promising and leading faculty members who will address the scientific, social, and policy issues associated with providing sustainable water and sanitation in underserved communities in the developing world. Because of the interdisciplinary nature of the WaSH challenge, this cluster will include faculty with expertise in environmental science and technology, public health, social science and socioecology, entrepreneurship, development economics, public policy, and related areas. We expect that these faculty hires will establish an active research and teaching collaboratorium across multiple departments and colleges focusing on WaSH issues in developing countries. Because the longstanding problems in water and sanitation have not been solved using existing approaches, we expect that new solutions, including new waste conversion technologies, data-driven business concepts, and social science innovations, will arise out of this interdisciplinary focus.

### About the Position

We expect to fill four tenured or tenure-track positions at all ranks (Full Professor, Associate Professor, Assistant Professor) and each position will be located in an appropriate Department within the University commensurate with expertise, degree area, and training. The successful faculty candidate(s) will have expertise in one or more areas related to Global WaSH, such as: science and technology of water provision or human waste management; sociology/socioecology of WaSH; environmental and public health protection; and WaSH entrepreneurship, economics, or public policy.

Minimum requirements include a Ph.D. in a relevant field from an accredited institution. The candidates should have a strong capacity to teach at both the undergraduate and graduate levels, including the capacity to mentor doctoral students and postdoctoral fellows. Priority will be given to candidates that have demonstrated interdisciplinary collaborations that cut across academic units. Inclusiveness and diversity are academic imperatives and thus university goals. The University is particularly interested in candidates with experience in working with students from

diverse backgrounds and who have a demonstrated commitment to improving access to higher education for students from underrepresented groups.

Applicants should submit a curriculum vitae, a cover letter, and contact information for references. Applicants should also submit a vision statement that discusses how the applicant would fit and work within the Global WaSH cluster, and identifies a potential home department. Materials for consideration will be accepted electronically via <http://jobs.ncsu.edu/postings/60159>. A comprehensive review of applications will begin immediately and continue until the positions are filled. Target start dates are August 2016; however, other start times may be negotiated.

**Confidential inquiries and nominations should be directed to:**

Dr. Francis de los Reyes ([fdelosr@ncsu.edu](mailto:fdelosr@ncsu.edu)), (919) 515-7416

## Cluster Search Committee

Robin Abrams (Architecture)

Zach Brown (Agricultural and Resource Economics)

Ryan Emanuel (Forestry and Environmental Resources)

Myron Floyd (Parks, Recreation, and Tourism)

Jon Bohlmann (Business Management)

Detlef Knappe (Civil, Construction, and Environmental Engineering)

Stefano Longo (Sociology)

Maria Mayorga (Industrial and Systems Engineering)

Elizabeth Nichols (Forestry and Environmental Resources)

Matt Polizzotto (Soil Science)

Francis de los Reyes (Civil, Construction, and Environmental Engineering), **cluster lead**

Laura Taylor (Agricultural and Resource Economics)

## Related research and facilities at NCSU:

[Center for Environmental and Resource Economic Policy \(CEnREP\)](#)

[Center for Geospatial Analytics](#)

[Environmental Engineering Laboratory](#)

[Global Health Initiative](#)

[Global Training Institute](#)

[Lake Wheeler Booth Field Laboratory](#)

[Soil Science Environmental and Agricultural Testing Service Laboratory](#)



## 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.

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| <ul style="list-style-type: none"><li>• Bioinformatics</li><li>• Carbon Electronics</li><li>• Data-driven Science</li><li>• Digital Transformation of Education</li><li>• Emerging Plant Disease and Global Food Security</li><li>• Environmental Health Science</li><li>• Forensic Sciences</li><li>• Genetic Engineering and Society</li><li>• Geospatial Analytics</li><li>• Global Environmental Change and Human Well-Being</li></ul> | <ul style="list-style-type: none"><li>• Global Water, Sanitation and Hygiene</li><li>• Innovation + Design</li><li>• Leadership in Public Science</li><li>• Microbiomes and Complex Microbial Communities</li><li>• Modeling the Living Embryo</li><li>• Personalized Medicine Sustainable</li><li>• Sustainable Energy Systems and Policy</li><li>• Synthetic and Systems Biology</li><li>• Translational Regenerative Medicine</li><li>• Visual Narrative</li></ul> |
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To date, forty-one (41) 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 <http://ncsu.edu/workthatmatters>.

## 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 <http://info.ncsu.edu/strategic-planning/overview/pathway-to-the-future/>

NC State's Commitment to Diversity at <http://oied.ncsu.edu/diversity/chancellors-statement-on-diversity/>

*NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919.515.3148. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners.*