CHANCELLOR’S FACULTY EXCELLENCE PROGRAM

Fostering a Culture of Interdisciplinarity at NC State

Warwick A. Arden, Provost and Executive Vice Chancellor

Friday, October 2, 2015
OVERVIEW

CHANCELLOR’S FACULTY EXCELLENCE PROGRAM
NC State’s Strategic Plan Goals

1. Enhance the success of our students through educational innovation.

2. Enhance scholarship and research by investing in faculty and infrastructure.

3. Enhance interdisciplinary scholarship to address the grand challenges of society.

4. Enhance organizational excellence by creating a culture of constant improvement.

5. Enhance local and global engagement through focused strategic partnerships.
Goals of Chancellor’s Faculty Excellence Program

- Hire outstanding faculty
- Expand interdisciplinary research opportunities
- Increase federal funding
- Create new academic programs to meet student demand
- Meet the needs of constituents as a land-grant institution
- Diversify the faculty
**COHORT 1**

- **Call for proposals** Sep 2011
- **First new hire on campus** Fall 2012
- **12 clusters funded** Feb 2012
- **20 hires now on campus** Fall 2013

**COHORT 2**

- **Call for proposals** Oct 2014
- **CFEP Symposium May 2015**
- **8 clusters funded** Apr 2015

**Other events**

- **CFEP Symposium** Apr 2014
- **CFEP Symposium** May 2015
- **Faculty proposal submission & review**
- **Creation of cluster search committees**
- **Recruiting and hiring new faculty; space renovation**
- **New faculty on campus and making impact**
### Cohort 1: 12 Clusters, 38 Positions
- Bioinformatics
- Environmental Health Science
- Global Water, Sanitation and Hygiene
- Personalized Medicine
- Carbon Electronics
- Forensic Sciences
- Innovation + Design
- Sustainable Energy Systems and Policy
- Data-driven Science
- Genetic Engineering and Society
- Leadership in Public Science
- Synthetic and Systems Biology
- Digital Transformation of Education
- Geospatial Analytics
- Microbiomes and Complex Microbial Communities
- Translational Regenerative Medicine
- Emerging Plant Disease and Global Food Security
- Global Environmental Change and Human Well-Being
- Modeling the Living Embryo
- Visual Narrative
Hires to Date: 41

By College

- Engineering: 11 (26.8%)
- Textiles: 1 (2.4%)
- Vet Med: 3 (7.3%)
- Education: 2 (4.9%)
- Natural Resources: 3 (7.3%)
- Ag & Life Sciences: 4 (9.8%)
- Management: 1 (2.4%)
- Humanities & Social Sciences: 2 (4.9%)
- Sciences: 13 (31.7%)
Costs to Date: $32 M

- Salaries & Benefits: $6,747,558 (21%)
- Space: $7,744,660 (24%)
- Startup: $17,537,551 (55%)
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MAKING A DIFFERENCE
Creating a Cultural Shift at NC State

- New way of identifying research areas
- New way of creating interdisciplinary groups
- New way of recruiting and hiring faculty
- Setting the stage for success
41 Outstanding Faculty in 12 Clusters

- T Professor: 6 (14.6%)
- TT Asst. Professor: 17 (41.5%)
- T Assoc. Professor: 12 (29.3%)
- TT Assoc. Professor: 6 (14.6%)
Funded Grants: $12.4M

Top four sources

- National Science Foundation: $6.9M
- National Institute of Health: $2.6M
- Department of Interior: $1.2M
- Department of Education: $0.4M
Interdisciplinary Academic Programs

Bioinformatics
- Master of Bioinformatics & Ph.D. programs

Genetic Engineering & Society
- Graduate minor in GES
- NSF IGERT Ph.D. minor program in Genetic Pest Management

Forensic Science
- Proposals for M.S. & Ph.D. programs

Geospatial Analytics
- Master of Geospatial Information Science & Technology program
- Graduate Certificate in GIS
- Proposal for Ph.D. program
NC State Faculty Diversity

Note: CFEP totals include hires who did not indicate ethnicity
National Press


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GENETIC ENGINEERING & SOCIETY CLUSTER
Dr. Fred Gould

- William Neal Reynolds Professor of Agriculture
- CALS Department of Entomology
- Joined NC State in 1978 as a Research Associate
- Member of the National Academy of Sciences
Science can’t solve it
Jason Delborne  Jennifer Kuzma  Zack Brown

Bill Kinsella  Nora Haenn
David Berube  Nils Peterson
Jade Berry-James  Carolyn Miller
Andrew Binder  Matthew Booker
Mike Cobb  Wally Thurman
Mary Kath Cunningham  Will Kimler
Jane Hoppin  Alun Lloyd
Marce Lorenzen  Nick Haddad
Max Scott  Kevin Gross
Jim Mahaffey  Yasmin Cardoza
Mike Roe  Hannah Burrack
David Threadgill  Jim Gilliam

Fred Gould  Lisa McGraw
John Godwin
Dr. Jason Delborne

- Associate Professor of Science, Policy & Society
- CNR Department of Forestry & Environmental Resources
- Joined NC State in Aug 2013
- Areas of expertise:
  - Science, Technology & Society
  - Environmental Policy
Department of Forestry & Environmental Resources

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LOOKING FORWARD

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