Academic Plan

The Future of the UD Faculty

• Hiring needs 2018-2030
• Searches
  – Cluster searches
  – Disciplinary searches
• Space and facilities
  – STAR Health and Tower at STAR
  – Biopharmaceutical Innovation Building
  – McKinly Laboratory
• Examples of unit level hiring plans
Number of Hires Needed Per Year to Maintain 1250 Faculty (blue) or Hiring as Fast as is Realistic to Reach 1500 Faculty (red)
Faculty Number Based on Historical Hiring (60/year in green) or Hiring as Fast as is Realistic to Reach 1500 Faculty (100/year in red)
Cluster Searches

• Benefits
  – Attract the most accomplished faculty
  – Enhance innovation and interdisciplinary programs
  – Catalyze creation of new academic programs
  – Enhance diversity

• Risks
  – Clusters too small
  – Inadequate space
  – Inadequate connection with academic units
  – Inadequate administrative support
  – Longer time to realize impacts
Cluster Searches

African American Material Culture

• New faculty
  – Monica Colman—Africana studies
  – Cheryl Hicks—Africana studies and history
  – Tiffany Barber—Africana studies (disciplinary search)
Cluster Searches—*Data Science*

- Search committee focused on **foundations** and **applications**
- Applications faculty
  - Rahmat Behesti—CIS
  - Austin Brockmeier—ECE (75%), CIS (25%)
  - Frederica Bianco—Physics (75%), SPPA (25%)
  - Gregory Dobler—SPPA (75%), Physics (25%)
- Foundations faculty
  - Xiugang Wu—ECE (75%), CIS (25%)
  - Brittany Fasy (pending)—CIS (75%), Math (25%)
  - Foundations search continuing in 2018-19
Disciplinary Searches—Data Science

• New faculty
  – Roghayeh (Leila) Barmaki—CIS (CHS affiliate)
  – Cencheng Shen—STAT
  – Jing Gao—Geography
  – Pinki Mondal—Geography
  – Zachary Collier—SOE
  – Songhua Xu—Accounting/MIS
  – Kyle Davis (pending)—Geography, CANR, SPPA
Cluster Searches

• Received 65 executive summaries
• 10 advanced to full proposals
  – 4 in Life & Health Sciences
  – 4 in Energy & Environment
  – 3 in Social Justice (Healthy Communities counted twice)
• Three selected to be launched
  – Biopharmaceutical Discovery
  – Disaster Science & Education
  – Coastal Water Security
Cluster Searches

- Cluster proposals not launched at this time
  - Neuroscience
  - Microbiology
  - Food-Water-Energy Nexus and Geohealth
  - Healthy Communities
  - Race and Social Justice
  - Computational Materials and Chemical Sciences
  - Wind Power and the Grid Interface
STAR Health and Tower at STAR
Biopharmaceutical Innovation Building

- Building themes
  - NIIMBL headquarters and labs
  - UD labs related to biopharmaceuticals
  - Delaware Biotechnology labs
- Project cost – $156 million
- Groundbreaking – October 2017
- Completion – expected January 2020
McKinly Laboratory
Researchers working in **Models and mechanisms of human disease** advance our understanding of the basic biology necessary to study and treat human disease.

Researchers working in **Mind, brain, and behavior** study the most complex system known to man, the human brain, and examine the implications of understanding the brain for understanding the mind and behavior.

Researchers working in **Science and technology of quantum materials** study emergent phenomena in condensed matter arising from quantum interactions and pursue the technological applications of these materials.
Musculoskeletal Rehabilitation
- Hicks – Chronic Spinal Pain, Hip Fracture, Geriatrics
- Silbernagel – Tendon Health (Achilles, Patellar)
- Sions – Lower Limb Loss, Chronic Spinal Pain
- Snyder-Mackler – Knee Injury, Post-Surgical Rehab
- White – Physical Activity, Knee Osteoarthritis

Neurologic Rehabilitation
- Binder-Macleod – Electrical Stimulation, Stroke
- Kim – Motor Control, Upper Extremity, Stroke
- Morton – Locomotion, Motor Learning, Stroke
- Reisman – Stroke, Gait, Motor Learning

Pediatric Rehabilitation
- Bhat – Autism, Motor Function
- Galloway – Developing Independent Mobility
- Lee – Cerebral Palsy, Functional Electrical Stimulation
- Lobo – Wearable Technology, Rehabilitation Devices

Overall Focus: Optimize Movement and Participation in Life Events to Improve the Human Experience
ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS

Gathering, organizing, evaluating, analyzing, securing, and reporting information for business and investment decisions.