

# Board of Trustees Retreat

Provost Robin W. Morgan

October 4, 2018



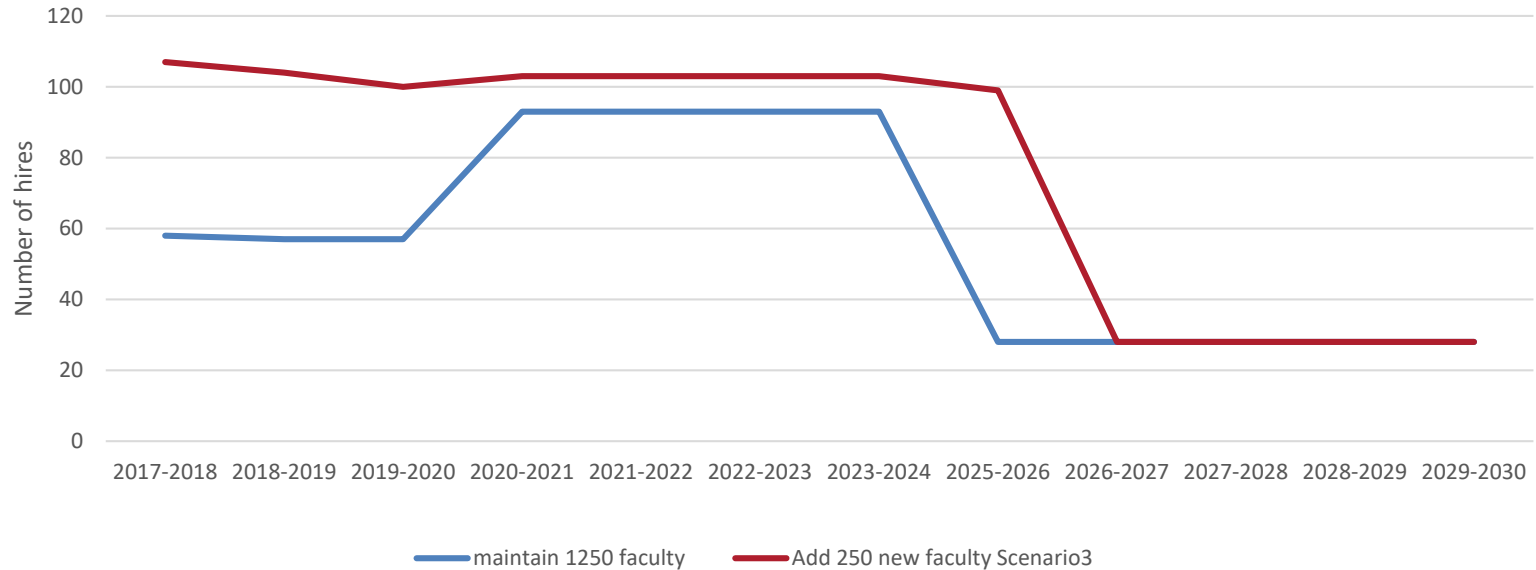
# Academic Plan

## *The Future of the UD Faculty*

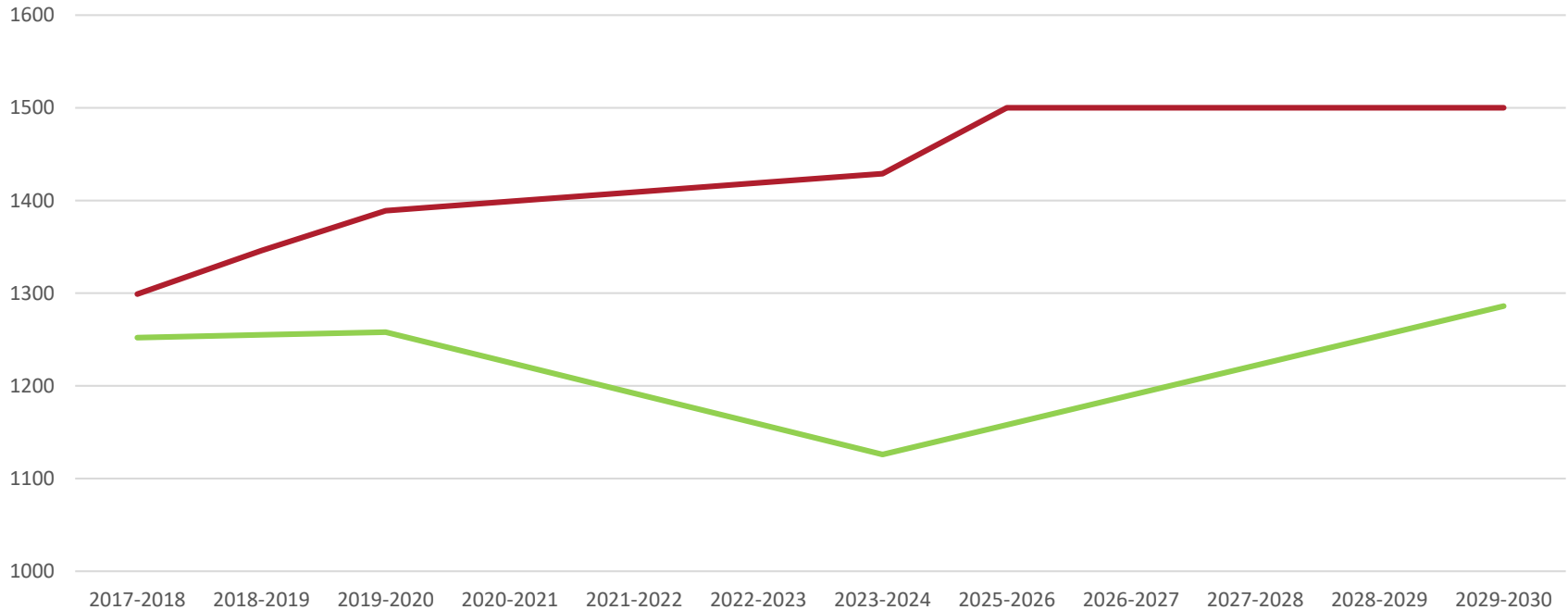
- Hiring needs 2018-2030
- Searches
  - Cluster searches
  - Disciplinary searches
- Space and facilities
  - STAR Health and Tower at STAR
  - Biopharmaceutical Innovation Building
  - McKinly Laboratory
- Examples of unit level hiring plans



## 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
  - Roghayeah (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

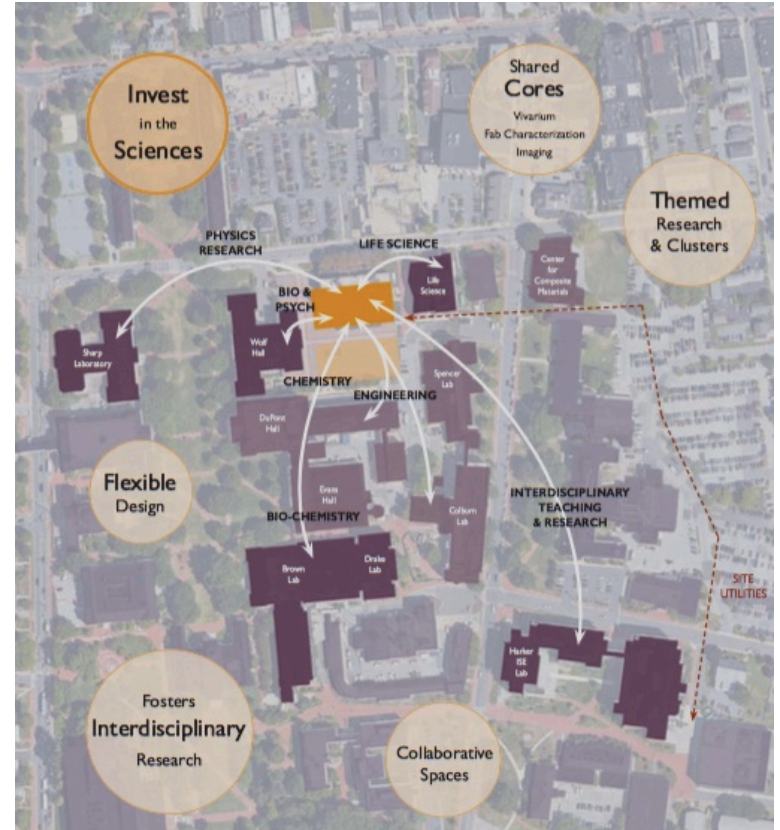


# Biopharmaceutical Innovation Building

- 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



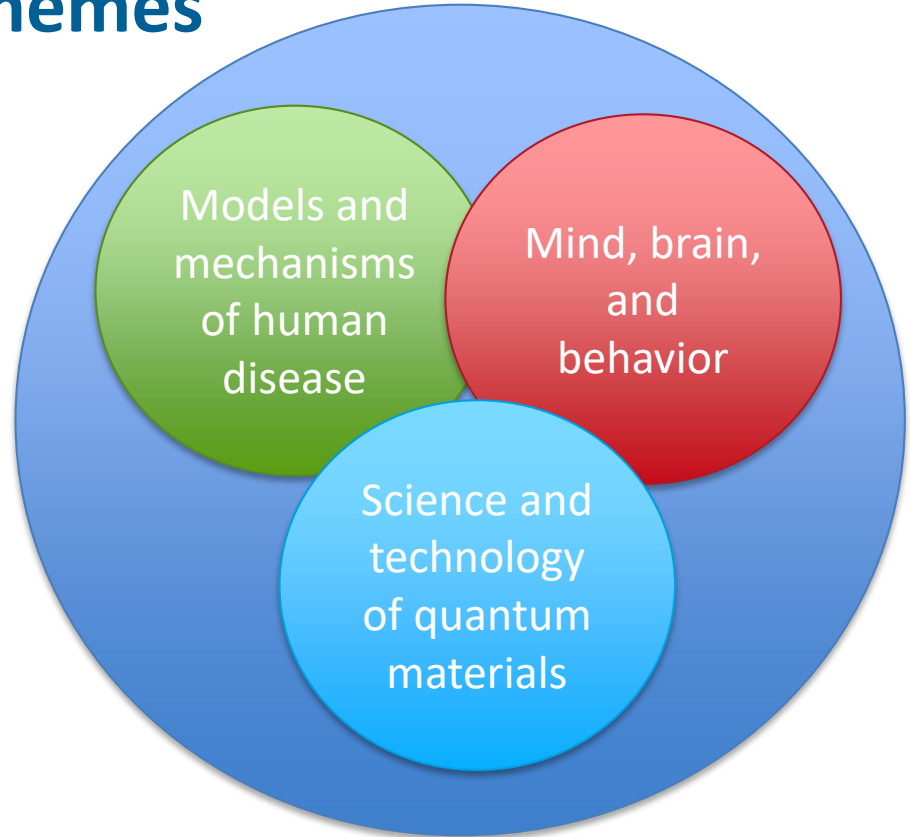


# McKinly Emerging Themes

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.



## UD Department of Physical Therapy

Overall Focus: Optimize  
Movement and Participation  
in Life Events to Improve the  
Human Experience

Full Professor  
Associate Professor  
Assistant Professor

### ***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

### ***Clinical Services***

- **Manal** – CT Faculty, Director

Overall Focus:  
Optimize  
Movement and  
Participation

### ***Neurologic Rehabilitation***

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

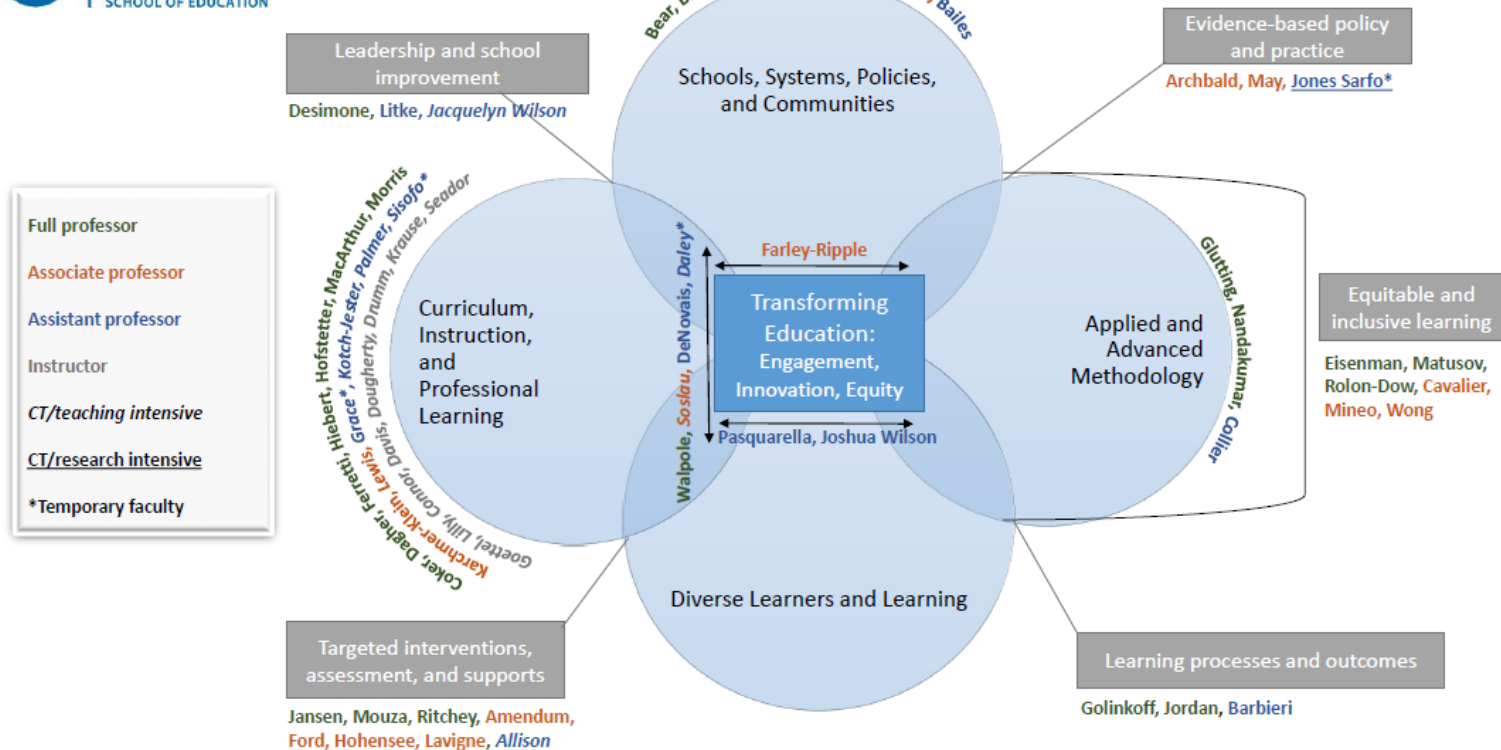
### ***Academic Program***

- **Silbernagel** – CT Faculty, Director

### ***Pediatric Rehabilitation***

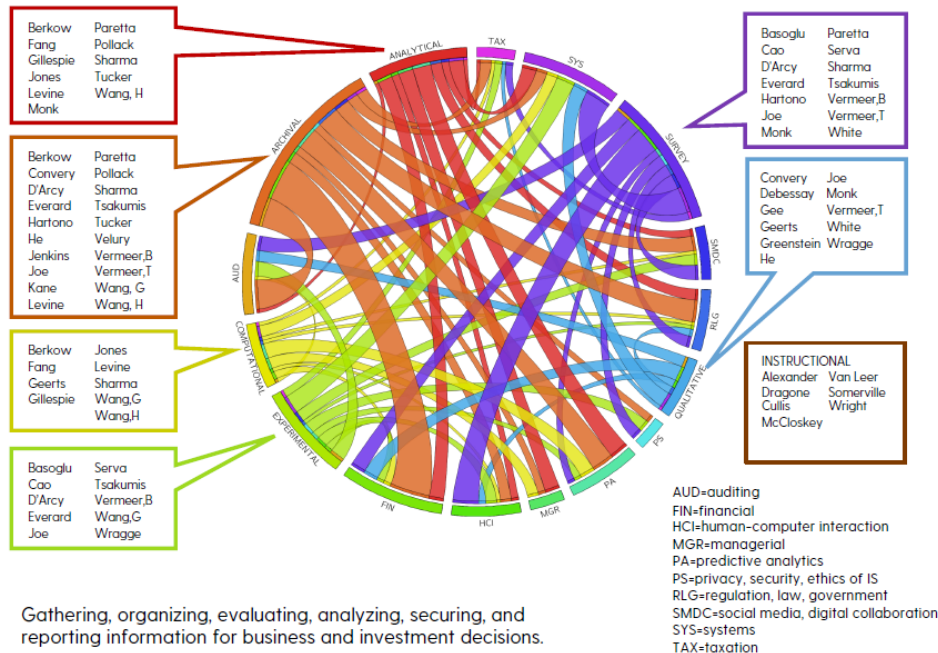
- **Bhat** – Autism, Motor Function
- **Galloway** – Developing Independent Mobility
- **Lee** – Cerebral Palsy, Functional Electrical Stimulation
- **Lobo** – Wearable Technology, Rehabilitation Devices







# ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS



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



## DEPARTMENT OF CHEMICAL & BIOMOLECULAR ENGINEERING

34 Faculty (31 FTE) 30 TT, 4 CT

