

P&T: Sharing Successes & Challenges

**QEM: MRI/RIA – HBCU-UP Proposal
Development Workshop**

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My Story

- Assistant Professor: 1997 – 2004
- Associate Prof. with term: 2004 – 2007
- Tenured Associate Prof.: 2004 – 2015
- Full Professor (in review): 2015
- My plan:
 - Full professor by 2009
- 6 Years overdue!
- What happened?

My Work

- Build capacity for sustained access to Basic Human Services in Developing Communities
 - Water, Sanitation, Shelter, Household Energy, Clean Indoor Air, Food, Personal Security
- Link this capacity to sustainable human development
 - Innovation for human development
- Build an interdisciplinary center of excellence
 - for Small Infrastructure & Development

Create a Sustainable Future

Engineer Improved Health

Advance Cyber/Physical Infrastructure

Provide Personal and Societal Security

<http://www.seas.virginia.edu/admin/strategic/research.php>

	Create a Sustainable Future	Engineer Improved Health	Advance Cyber/Physical Infrastructure	Provide Personal and Societal Security
Biomechanics		◆		
Biomolecular Design	◆	◆		
Catalysis and Surface Reactivity	◆			
Corrosion and Electrochemistry	◆	◆	◆	◆
Cryptography			◆	◆
Dependability Research Group	◆	◆	◆	◆
Graphics		◆	◆	◆
Human Computer Interaction		◆		
Medical Imaging		◆		
Nanoelectronics	◆		◆	
Next Generation Aerospace			◆	◆
Optimization and Control		◆	◆	◆
Pervasive Computing	◆	◆		◆
Risk Management of Engineering	◆	◆	◆	◆
Scalable, Efficient, and Reliable Circuits, Architectures, and	◆	◆	◆	◆
Software Engineering		◆	◆	◆
Programming Languages and				
Sustainable Infrastructure Systems	◆			
Systems Biology and Cell		◆		
Terahertz Science and Engineering		◆	◆	
Transportation Studies	◆	◆	◆	◆
Wireless Health		◆		
Ethics in Emerging Technologies	◆	◆	◆	◆
Space Science	◆			

Tufts University Engineering

- Be recognized as the school of choice for a liberal arts/engineering education
- Be recognized for its 'top 20' ranked graduate education/research programs associated with its three strategic interdisciplinary areas:
 - Engineering for Human Health;
 - Engineering for Sustainability; and
 - Engineering the Human-Technology Interface

What happened

- I was clear about my school's P&T requirements
- I set my related goals, objectives & timelines
- I stuck to them
 - Research with impact
 - Collaborative work
 - High visibility
- But
 - A basketball player on a baseball team
 - Swimming upstream
 - Delayed my progress

The Silver Lining in My Cloud

- I'm ready
- My CV
- My network
- Impact of my work
- Intellectual merit of my work
 - Emerging

My advise to you

- Get mentors
 - Internal & External
- Know your place
- Be ready to move to a better place
 - Work/Life Balance – Family
- Fulfillment