

Managing the research function of the College

Mentorship, Coaching and Scaling up

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Teaching Entrepreneurship to Engineering students

<https://www.youtube.com/watch?v=PFoKmWfkDcU>

Research in the Engineering sector

- Engineering is a very rich and diverse discipline
- Most of the other disciplines borrow knowledge and technology from Engineering
- It is traditionally an experimental process of research
- Good Engineering research should lead to;
 - New products
 - New applications
 - New technology
 - Efficiency of technologies
 - Effectiveness of technologies

The Engineering researchers' dilemma

- They develop “great” prototypes but never give them life and gain economic value
- They have top-notch capacities but never have interest to cherish the imagination of using their capacities to develop products
- They usually assume that they know what markets and communities need without asking the communities
 - (e.g. Market problem analysis,
- They are always victims of selfish “Investors”
- They are never prepared to face the business sharks and playing by the rules

We need to change!!!!

Linking research to the community

- Developing engineering products
- Partnerships with the industry for product reviews (UNRA, NWSC, NEMA, Telecoms, UEGCL, UMEME etc..)
- Consulting research for Engineering services with permission to publish
- Selecting the audience of the research output more strategically
- Engaging in multidisciplinary research
- Develop a CEDAT Journal and Working paper series and accepting papers from non-academics
- Engineering innovation incubator for various major products

Engineering mentorship for innovative ideas and impact inventions

- Develop a trustable community of practice among the Faculty
- Inter-institutional exchange programmes (CEDAT/KYU etc..) with a results-based framework.
- Develop a cohort of readers for the College to keep following the new frontiers of the E=General and Specific Engineering Knowledge specialties