Building Work Ready Graduates through Industry Collaborative Partnerships and Networks: Strategies for Curriculum Design and Faculty Development (CSIS & ENG)

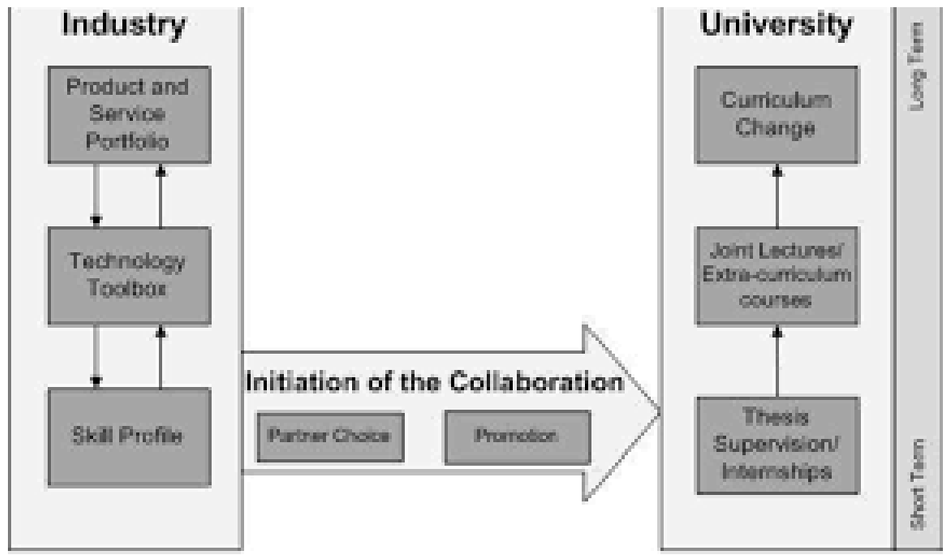
We discuss benefits and drawbacks of the industry collaborative partnerships and networks. We also share successful models and tactics, and offer practical advice:

Industry Collaborative Partnerships

Work ready graduates requires **active** industry collaborative partnership that includes:

- Industry
- University
- Students

Project-based or Experiential Learning Models



Industry Partners 2022/2023

42 Industry at Career Fair
66 for Internship Placements

Courses:
12 for Software Engineering
7 for Cloud Computing
3 for Web Technologies
3 for Technology & Ethics
8 for Capstone Projects

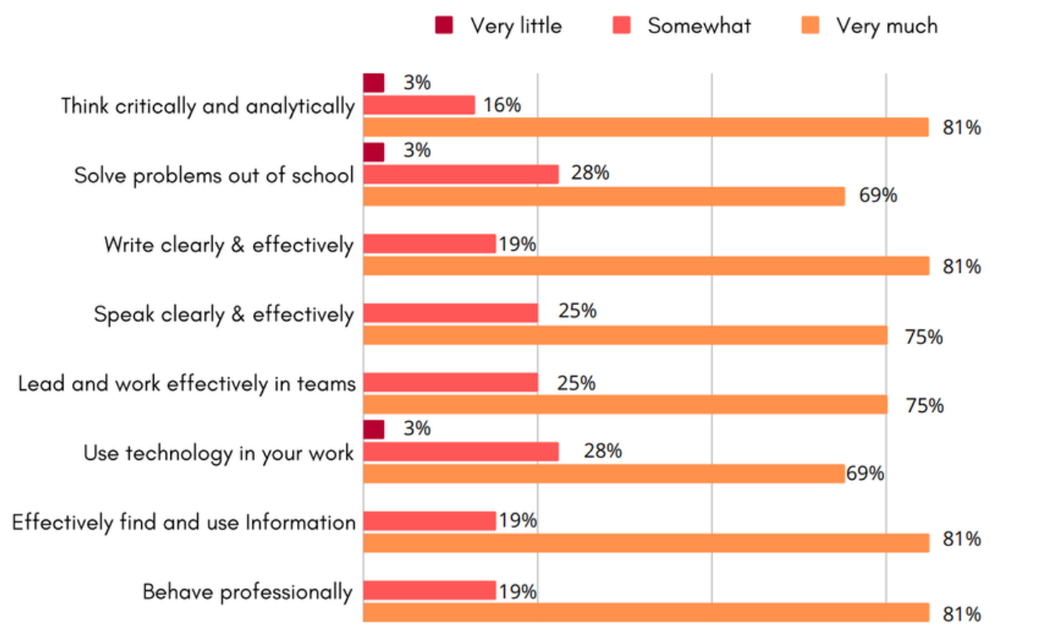
CSIS & ENG Approach

- **Short-term course collaboration:** invited guests/speakers
- **Long-term course collaboration:** industry-driven project ideas, multiple engagements in a semester or academic year

1. Capstone projects
2. Internships and Employment (Career Services)
3. Research collaborations
4. Curricula review

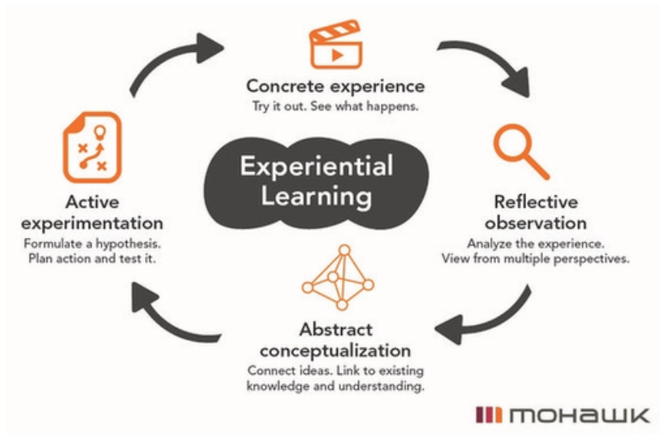
Engineering Partnership Example

- Green house Farm partnership in Dawhenya: Maths, CS, CE, ME, EE, ElecE (Research), CaRINE (info for research).
- Encourage students to venture into Agriculture



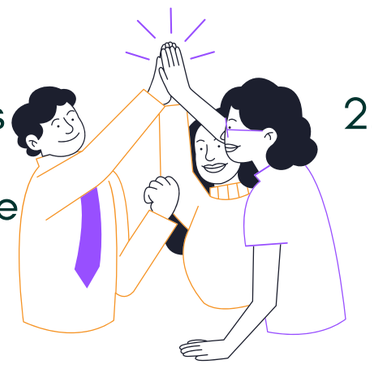
CSIS Partnership Example

Experiential Learning research grant:
SE, CC, PM (CE) -167 students



Benefits

1. Class of 2019 engineering cohort, six months after the completion of their national service, out of 48 engineering graduates, 32 (67% of the class) responses were received, and the responses showed **93.75% placement** (employment, graduate school, entrepreneurship).
2. Co-review of CSIS & ENG curricula.
3. Cross/Interdepartmental research and project, integration into curriculum.



Drawbacks

1. Legal limitations - Non-Disclosure Agreements and Intellectual Properties
2. Moderating conflicting interests (different technologies and approaches).