

## Research Task / Overview

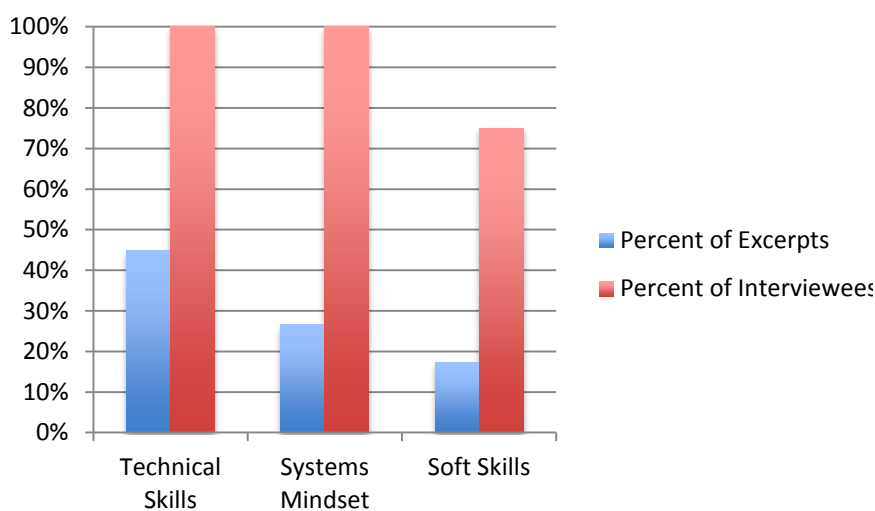
- Mission engineering as the application of systems of systems (SoS) engineering in a operational context.
- Research tasking and objectives to identify the critical skills required to successfully accomplish and shepherd mission engineering.
- Competency model builds on grounded theory leverages the Helix methodology on developing effective system engineers using a combination of mission engineer interviews as informed by searching the open source literature.
- Interviews and open source literature covers 1) mission engineering definition and organizational support, 2) identification of competencies and gaps, and 3) future vision.

## Goals & Objectives

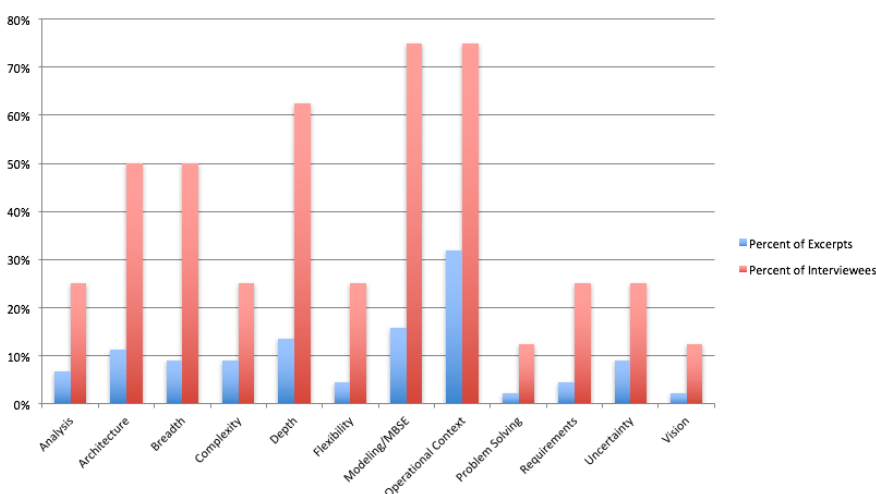
- Identify competencies for mission engineering that are truly unique.
- Identify critical overlaps between mission engineering and systems engineering competencies.
- Develop a mission engineering competency model that supports the DoD engineering community.
- Conduct a gap analysis comparing Defense Acquisition University's (DAU) current curricula against the competency requirements.
- Provide recommendations on creating a mission engineering curriculum.

## Data & Analysis

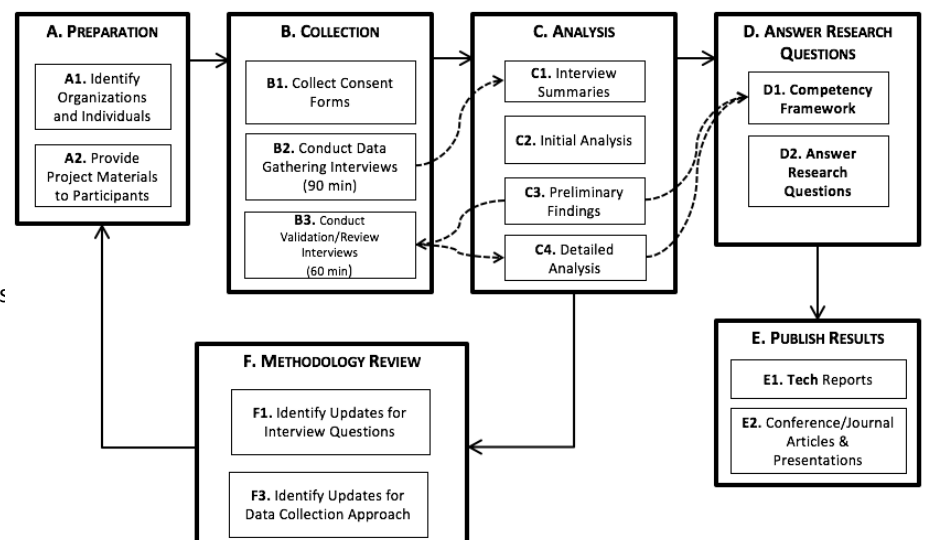
### Mission Engineering Competencies



### Technical Skills



## Methodology



## Future Research

- Conduct a gap analysis comparing Defense Acquisition University's (DAU) current curricula against the competency requirements.
- Provide recommendations on creating a mission engineering curriculum, as well as modifying the applicable acquisition career fields' curricula to build interdisciplinary mission engineering knowledge and abilities.

## Contacts/References

Principal Investigator  
 Gregg Vesonder, Ph.D.  
[gvesonde@stevens.edu](mailto:gvesonde@stevens.edu)  
 (201)216-8107