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## Designing and Building the Engineer & Scientist of 2020

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## Designing and Building the Engineer & Scientist of 2020

By Hisham Hegab, Dean, College of Engineering & Science

Over 17 years ago, the National Academy of Engineering published a report on the Engineer of 2020 that listed several key attributes that new engineering graduates will need to be successful. These attributes include strong analytical skills, practical ingenuity, creativity, communication and life-long learning skills, adaptability, high ethical standards, leadership, professionalism and business/management abilities. I believe what makes the combination of these attributes significant is that they are skills and characteristics that allow a person to be innovative. As our graduates now compete in a global market place, one crucial ability that will set them apart from the competition is the ability to innovate.

As we quickly approach 2020, I believe the College of Engineering and Science continues designing and building its program curricula as well as our educational environment and extra-curricular experiences to produce innovative engineering and

science graduates. The latest effort toward this objective is under construction near our existing facilities of Bogard, Nethken and Carson-Taylor Halls. The new Integrated Engineering and Science Education Building incorporates many features to help support the development of the Engineer of 2020 attributes, such as flexible classroom-to-lab spaces that can be rearranged to support the best learning pedagogies. The building includes a student achievement center to provide direct student access to the latest prototyping equipment. It houses collaboration spaces with audio and visual technology to support teams of students working together on homework and projects, and, most importantly, it contains a coffee spot to provide the caffeine to fuel the innovation. Our faculty, staff and students eagerly anticipate the opening of this new facility in the Fall of 2019. I hope you will enjoy this issue of the E&S and stop by for a tour and some coffee next fall.