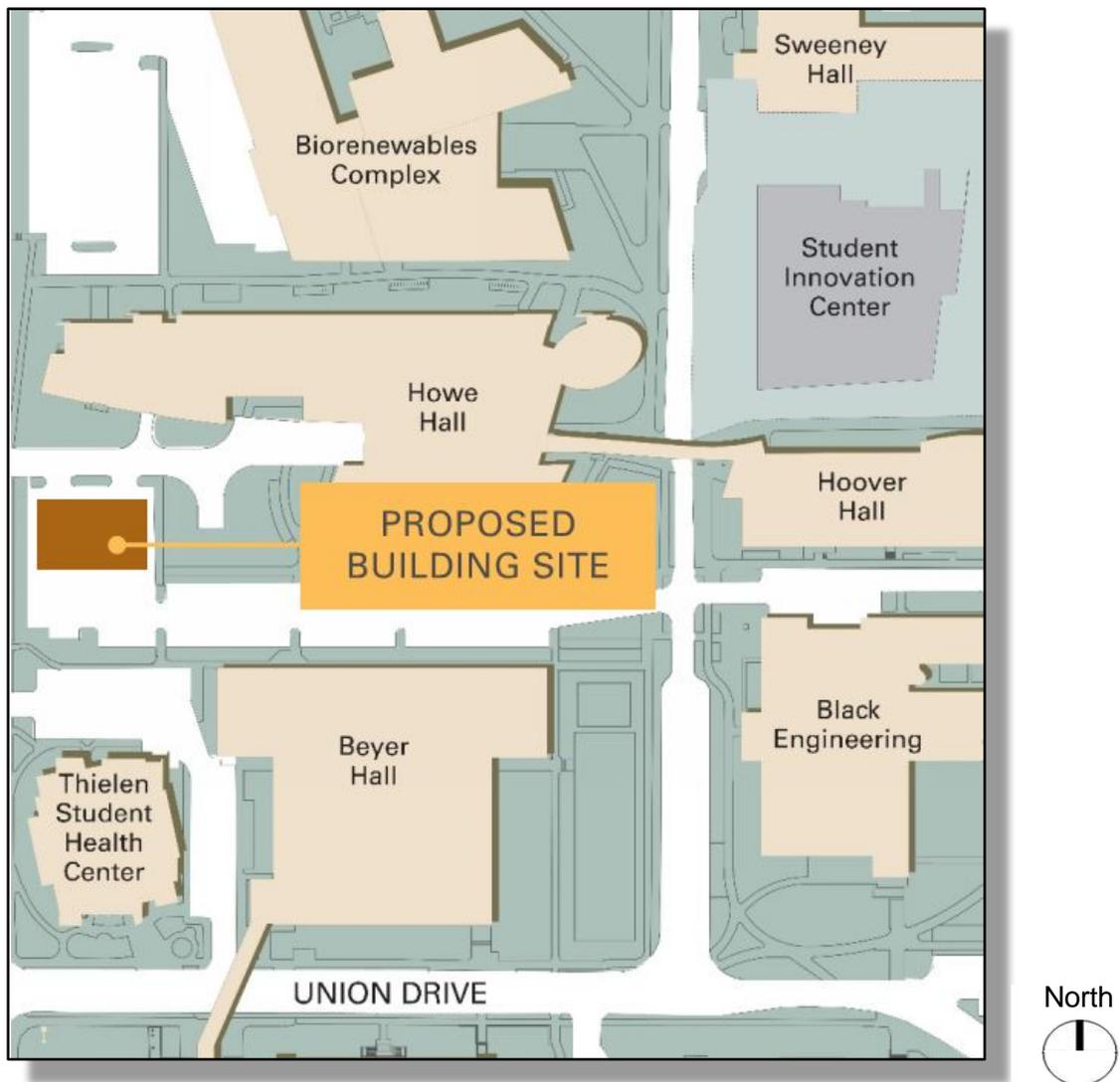


Contact: John Nash

**REGISTER OF IOWA STATE UNIVERSITY
CAPITAL IMPROVEMENT BUSINESS TRANSACTIONS**

Actions Requested: Consider approval of:

- Permission to Proceed with Project Planning for the **Industrial and Manufacturing Systems Engineering Building** project, including the use of alternative delivery methods and the design professional selection process. The estimated project budget of \$40,000,000 would be completely funded by Private Giving.



Iowa State University, southwest of central campus

Executive Summary: This project would build a new facility for the Department of Industrial and Manufacturing Systems Engineering (IMSE) of the College of Engineering. The new building would be approximately 52,000 gross square feet (29,000 net square feet), and provide new space for teaching and research labs, classrooms and office space. The estimated project budget of \$40,000,000 would be completely funded by Private Giving.

Background:

	<u>Date</u>	<u>Board Action</u>
Permission to Proceed with Project Planning	Aug. 2019	Requested
Use of Alternative Delivery Methods	Aug. 2019	Requested

Due to enrollment growth, the College of Engineering has considerable space constraints. The IMSE Department currently occupies 22,300 square feet in the Black Engineering building, which it shares with the Department of Mechanical Engineering (ME). Due to limited space, the two departments share teaching labs to optimize use of limited space and specialized equipment.

In 2014, a space planning study conducted by the College of Engineering identified a critical shortage of space. The study concluded that the ME Department needed an additional 80,000 net square feet. A separate assessment of the requirements of the IMSE Department identified a need for 7,000 additional net square feet.

The new IMSE building would improve the quality and quantity of space for the IMSE Department supporting the following areas of study: Operations Research and Analytics, Advanced Manufacturing, Human Factors and Ergonomics, and Systems Engineering and Engineering Management. The new facility would meet the IMSE Department space requirements and make significant space available in the Black Engineering building, helping to alleviate the critical needs of the ME department.

In addition, the university requests permission to consider the use of alternative delivery methods other than the normal design-bid-build process for this project. Per Policy Manual section 2.3/7/F/iii, the university will consider the following advantages and disadvantages to afford the best value and managed risk to the project:

- the need for accelerated design;
- maximizing collaboration during the design phase between design professionals and construction professionals to improve project outcomes;
- a fast-track approach to the construction schedule to allow the university to begin beneficial use of the facility as soon as possible;
- maximizing competition and the use of Iowa based contractors and subcontractors; and
- assuring construction professionals are selected that have the necessary specialized knowledge or expertise required for the project.