Application Process

Minimum admission
- Bachelor of Science degree in biological and agricultural engineering, or similar discipline (full admission)
- Bachelor of Science degree in another engineering or non-engineering discipline (provisional admission)
- Cumulative GPA of at least 3.0 on a 4.0 scale
- GRE scores (no minimum)

International student requirements

<table>
<thead>
<tr>
<th>Test</th>
<th>Minimum score</th>
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</thead>
<tbody>
<tr>
<td>IBT TOEFL (interest-based)</td>
<td>79</td>
</tr>
<tr>
<td>TOEFL (PBT)</td>
<td>550</td>
</tr>
<tr>
<td>IELTS</td>
<td>6.5</td>
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<tr>
<td>Pearson Test of English (PTE)</td>
<td>58</td>
</tr>
</tbody>
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Application deadlines
- Jan. 8 for fall (August) enrollment
- Aug. 1 for spring (January) enrollment
- Dec. 1 for summer (June) enrollment

Financial assistance
The BAE department offers competitive graduate research assistantships (GRAs) and graduate teaching assistantships (GTAs), providing stipend and tuition support. Competitive research grants and contracts support GRAs and the college support GTAs. Graduate students are also eligible for philanthropic and nationally funded graduate fellowships.

English language program (ELP)
Kansas State University offers English language graduate support courses. ELP academic advisers help students, who are admitted to study in a degree program, make the transition from the ELP into their academic departments. For more information, visit k-state.edu/elp.

Helpful websites
Engineering graduate programs
engg.k-state.edu/academics/graduate

Graduate catalog
catalog.k-state.edu/index.php

Tuition and fee information
k-state.edu/finsvcs/cashiers/costs

Graduate student life information
k-state.edu/grad/students
Welcome

Kansas State University has a rich heritage of excellence in preparing doctorate and master’s graduate students to pursue an academic, government or industry career. The department of biological and agricultural engineering (BAE) is research oriented and committed to helping students reach their personal career goals through real-world and challenging research opportunities. BAE is expanding knowledge and innovation in environmental sustainability, advanced biological products, and terra-machine mechanics and mechatronics. Our heritage, focusing on food and fiber production systems while conserving our natural resources, remains vital in the 21st century.

Sincerely,
Joe Harner
Department head and professor

Program contact information
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Research Areas

Advanced biological products
This research focuses on utilization of bio-based materials from existing refinement processes and development of new valued-added products. Areas of emphasis include the following:

• Bio-based materials
• Co-products utilization
• Alternative bio-based fuels
• Specialty human food products
• Animal and human biotechnology

Environmental sustainability
This research focuses on conservation and preservation of natural resources to meet increasing global demands for biological products, and utilization of biological systems in sustainable food systems. Areas of emphasis include the following:

• Air quality
• Climate change
• Water resources
• Ecological systems
• Land-water interaction

Terra-machine mechanics and mechatronics
This research focuses on utilization of new machinery systems, application of technologies, and the role of big data in sustainable food and fiber production systems. Areas of emphasis include the following:

• Mechatronics
• Human interaction
• Precision technologies
• Energy and power conversion
• Automated and robotic machines

Degrees

Master of Science
The Master of Science program is a broadly based curriculum designed to prepare students for advanced positions in the agricultural and biological engineering industry, consulting and government, as well as for further graduate studies. This degree requires a minimum of 30 credit hours of graduate-level course/research work.

Concurrent Bachelor of Science and Master of Science
The concurrent Bachelor of Science and Master of Science degree program allows a qualified junior or senior in the biological systems engineering undergraduate program to apply. Up to nine credit hours taken for graduate credit can be applied towards the bachelor’s degree. The student will earn both bachelor’s and master’s degrees upon graduation.

Doctor of Philosophy
The doctorate degree program is a research-oriented curriculum designed to prepare students for advanced research and university-level academic positions in biological and agricultural engineering. The program requires 60 credit hours beyond the master’s degree, including original research of sufficient quality and importance to merit publication in refereed journals.