WHY CHOOSE MISSISSIPPI STATE?

MSU has been dedicated to engineering and research since its establishment in 1878.

The MSU College of Engineering research expenditures total $60 million per year*.

The Mechanical Engineering (ME) department currently has over 65 graduate students and 21 faculty members*.

Most faculty members have extensive industrial experience.

Nearly all ME graduate students hold paid assistantship positions and receive full tuition waivers.

*2007 figures

GRADUATE RESEARCH

The importance of research in graduate education is paramount, which is why every graduate student in the Mechanical Engineering department is involved in sponsored research projects. Current research topics include:

- Sustainable and renewable energy systems
- Multi scale materials modeling
- Computational fluid dynamics
- Materials processing
- Heat exchangers and heat transfer enhancement
- Fatigue and failure
- Internal combustion engines
- Composite development
- Vibrations
- Acoustics
- Applied engineering statistics
- Heating, ventilating, and air conditioning
- Friction stir welding and processing

Many interdisciplinary projects are conducted at research centers throughout Mississippi State University, such as the Center for Advanced Vehicular Systems (www.cavms.msstate.edu), the Sustainable Energy Research Center (www.serc.msstate.edu), the Computational Simulation and Design Center (www.simcenter.msstate.edu), or the Micro-CHP and Bio-fuel Center (www.microchp.msstate.edu).
**ADMISSIONS**

Graduate admissions decisions are made on an individual basis. The major requirements for admission include:

- A good academic transcript (B average or better)
- Three letters of recommendation
- Graduate Record Examination (GRE) is required for international students or students without an ABET accredited undergraduate degree in Engineering
- With some exceptions, TOEFL is required of international students

The complete application can be found online at: www.msstate.edu/dept/grad/admissions/

**COMPLETION REQUIREMENTS**

Graduate program completion requirements include:

**MS - Master of Science Thesis Option**
- Complete 24 credit hours of coursework
- Complete 6 credit hours of research/thesis
- Submit and defend thesis

**MS - Master of Science Non-Thesis**
- Complete 33 credit hours of coursework

**PhD - Doctor of Philosophy**
- Students must take the ME Ph.D. qualifying exam within 24 months of their admission to the Ph.D. program
- Complete at least 42 hours of coursework with up to 6 hours of Directed Individual Studies (DIS) as recommended by the student’s committee
- Successfully present dissertation proposal
- Submit and defend dissertation

Student life at MSU is very dynamic with more than 300 student organizations representing a wide spectrum of hobbies and interests. Students can enjoy the great outdoors, arts, entertainment, sports, and dining, as well as a vibrant social life.
A GREAT LOCATION

Mississippi State University is located in rapidly growing Starkville, a city of approximately 25,000 in the center of the southern United States. The university enrolls about 16,000 students, employs more than 1,000 faculty members, and awards some 3,000 degrees per year.

Distance from MSU (in miles)

<table>
<thead>
<tr>
<th>City</th>
<th>Miles</th>
</tr>
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<tbody>
<tr>
<td>Memphis</td>
<td>165</td>
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<tr>
<td>Atlanta</td>
<td>292</td>
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<tr>
<td>New Orleans</td>
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<tr>
<td>Meridian</td>
<td>96</td>
</tr>
</tbody>
</table>

A SPRINGBOARD TO SUCCESS

After graduation our Mechanical Engineering graduate students move on to begin successful careers in academia, industry, and research labs. Most students have job offers before graduation. Employers of our recent graduates include:

**Industry**
- Shell Oil Company (Houston, TX)
- Cascade Energy Engineering (Portland, OR)
- Bell Helicopter (Fort Worth, TX)
- Northrop Grumman (Pascagoula, MS)
- Aerojet (Sacramento, CA)
- Dresser (Addison, TX)
- Boeing (Seattle, WA)
- Volvo (Greensboro, NC)
- Lockheed Martin (Slidell, LA)
- Eaton Aerospace (Jackson, MS)
- Whitbybird Engineers (London, England)
- Intel (Penang, Malaysia)

**Research Labs**
- DOE National Renewable Energy Lab (NREL)
- SouthWest Research Institute
- Eglin Air Force Base
- NASA Marshall Space Flight Center
- Naval Sea Systems Command

**Academia**
- University of Idaho
- University of Illinois, Carbondale
- University of Tennessee, Chattanooga
- Mississippi State University
Additional information can be obtained from the following sources:

**Graduate Coordinator**  
Department of Mechanical Engineering  
Mail Stop 9552, 210 Carpenter Building  
Mississippi State University  
Mississippi State, MS 39762  

Telephone: 1.662.325.3260  
Fax: 1.662.325.7223  

E-mail: graduate@me.msstate.edu  
website: www.me.msstate.edu

Mississippi State University does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status.