MAE Graduate Program Information

Dr. Xiaodong Yang
227 Toomey Hall

Please check our MAE website for a lot of useful information
Research in MAE

➢ Research Areas

• **Energy**
  Advanced Manufacturing
  Materials
  Micro/Nano Systems
  Aerospace
  Robotics and Vehicle Systems

➢ Technical Areas

• **Thermal-Fluid Sciences**
  Design and Manufacturing
  Materials, Structures and Structural Dynamics
  Dynamic Systems and Control
  Aerospace Sciences
Graduate Degree Options

> **Direct Doctor of Philosophy**
  • Mechanical Engineering, Aerospace Engineering
  • [https://mae.mst.edu/mechanicalengineering/mechanicalengineeringgraduate/directphdinmechanicalengineering/](https://mae.mst.edu/mechanicalengineering/mechanicalengineeringgraduate/directphdinmechanicalengineering/)

> **Master of Science**
  • Thesis and non-thesis options
  • Mechanical Engineering, Aerospace Engineering, Manufacturing Engineering
  • [https://mae.mst.edu/mechanicalengineering/mechanicalengineeringgraduate/msinmechanicalengineeringthesisoption/](https://mae.mst.edu/mechanicalengineering/mechanicalengineeringgraduate/msinmechanicalengineeringthesisoption/)

> **Certificates**
  • A Pathway to a Master’s Degree, no GRE, less GPA requirement
Graduate Program Application

> **Grad Track Pathway Program** (optional)

- The deadline for submitting the GTP applications for Spring 2022 graduates is May 31\(^{\text{st}}\), 2021. The application deadline for Fall 2021 graduates is extended. Fall 2021 graduates must apply for GTP ASAP.

- Six credit hours of 5000-level or 6000-level Mech Eng or Aero Eng graduate coursework may be transferred to the associated thesis or non-thesis master’s degree. Additional graduate coursework may be taken by applying for dual undergraduate/graduate enrollment.

> Dual enrollment (optional)

- Undergraduates wishing to pursue a few graduate-level courses

> Take GRE test before application (The GRE score is optional for Summer 2021 and Fall 2021)

- Minimum requirements Q 155, V+Q 302, AW 3.5

> Contact professors in your interested areas for funding
Funding Opportunities

> Kummer I&E Doctoral Fellows program is open to apply for new and incoming domestic and international full-time Ph.D. students. If you have any students who can apply, please nominate them directly. The current deadline for applying is **February 19**. Please see details in: [https://kummerinstitute.mst.edu/fellowsprogram/](https://kummerinstitute.mst.edu/fellowsprogram/)

> Mathews and Kaiser Fellowship. The MKF is open to both domestic students and foreign students and applications are accepted anytime (no deadline). If you know any outstanding PhD applicants who are interested in our graduate program, please directly talk with me for nomination. [Mathews and Kaiser Fellowship](#)

> GAANN Fellowship in advanced manufacturing areas including additive manufacturing, battery fabrication, metrology for manufacturing, process-control, and composite manufacturing. [GAANN Fellowship](#)

> Graduate research assistantship (GRA)

> Graduate teaching assistantship (GTA)

> NASA Space Technology Research Fellowship

> National Science Foundation Graduate Research Fellowship
# Examples of recent successful PhD graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Graduation Year</th>
<th>Job Position</th>
<th>Company or Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zahra Sadeghizadeh</td>
<td>2018</td>
<td>Assistant Professor</td>
<td>Florida Polytechnic Univ.</td>
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<tr>
<td>Ayad Al-Ogaidi</td>
<td>2018</td>
<td>Assistant Professor</td>
<td>Baghdad University</td>
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<tr>
<td>Muthu Loganathan</td>
<td>2017</td>
<td>Mechatronics Engineer</td>
<td>ASML</td>
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<td>Jennifer Creamer</td>
<td>2017</td>
<td>Research Engineer</td>
<td>Boeing</td>
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<tr>
<td>Patrick Sammons</td>
<td>2016</td>
<td>Post-doc</td>
<td>University of Michigan</td>
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<tr>
<td>Ran Zhou</td>
<td>2017</td>
<td>Assistant Professor</td>
<td>Purdue Univ.-Northwest</td>
</tr>
<tr>
<td>Jacob Darling</td>
<td>2016</td>
<td>Research Engineer</td>
<td>Boeing</td>
</tr>
<tr>
<td>Zhangli Hu</td>
<td>2019</td>
<td>Research Engineer</td>
<td>Populus Group</td>
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<tr>
<td>Sreekar Karnati</td>
<td>2019</td>
<td>Research Engineer</td>
<td>GE Global Research</td>
</tr>
<tr>
<td>Wei Li</td>
<td>2018</td>
<td>Assistant Professor</td>
<td>University of Texas-Dallas</td>
</tr>
<tr>
<td>Lei Yan</td>
<td>2019</td>
<td>Mechanical Engineer</td>
<td>Technical Data Analysis Inc</td>
</tr>
<tr>
<td>Amir Ghazanfari</td>
<td>2017</td>
<td>Assistant Professor</td>
<td>San Jose State University</td>
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<tr>
<td>Yingqi Li</td>
<td>2019</td>
<td>Research Engineer</td>
<td>Gestamp North American</td>
</tr>
<tr>
<td>Wenbin Li</td>
<td>2019</td>
<td>Research Engineer</td>
<td>Flexiv Robotics Ltd.</td>
</tr>
<tr>
<td>Paul Friz</td>
<td>2019</td>
<td>Aerospace Engineer</td>
<td>NASA Langley Center</td>
</tr>
<tr>
<td>Andrew Brune</td>
<td>2016</td>
<td>Aerospace Engineer</td>
<td>NASA Langley Center</td>
</tr>
<tr>
<td>Thomas West</td>
<td>2015</td>
<td>Aerospace Engineer</td>
<td>NASA Langley Center</td>
</tr>
<tr>
<td>Harsheel Shah</td>
<td>2015</td>
<td>Analytics Project Lead</td>
<td>Caterpillar, Inc.</td>
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Questions