DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

http://engineering.tamu.edu/materials

Head: I. Karaman

Director, Graduate Program: M. Demkowicz

The Department of Materials Science and Engineering curriculum is designed to provide advanced training for careers in the rapidly growing materials industry, national laboratories and academic (research and teaching) environments. The curriculum consists of core courses and technical electives, both of which are designed to complement practical application with a strong foundation of underlying theory. Research thrusts include advanced structural materials; materials for extreme environments; nanostructured materials, including thin films; multifunctional materials and composites; corrosion; polymers, including composites and nanocomposites; ceramics; computational materials science and engineering; and energy materials.

To review additional courses in the MSEN curriculum, refer to Designated Electives (https://engineering.tamu.edu/materials/academics/designated-electives).

Faculty

Akbulut, Mustafa, Associate Professor
Materials Science & Engr
PHD, University of California, Santa Barbara, 2007

Alge, Daniel L, Assistant Professor
Materials Science & Engr
PHD, Purdue University, 2010

Arroyave, Raymundo, Professor
Materials Science & Engr
PHD, Massachusetts Inst of Technology, 2004

Asadi, Amir, Assistant Professor
Materials Science & Engr
PHD, University of Manitoba, 2013

Atli, Kadri Can, Research Assistant Professor
Materials Science & Engr
PHD, Texas A&M University, 2011

Balbuena, Perla B, Professor
Materials Science & Engr
PHD, University of Texas, 1996

Banerjee, Sarbajit, Professor
Materials Science & Engr
PHD, State University of New York at Stony Brook, 2004

Batteas, James D, Professor
Materials Science & Engr
PHD, University of California, Berkeley, 1995

Bazzi, Hassan, Professor
Materials Science & Engr
PHD, McGill University, 2003

Benzerba, Amine A, Professor
Materials Science & Engr

Cagin, Tahir, Professor
Materials Science & Engr
PHD, Clemson University, 1988

Case, Raymundo P, Professor of the Practice
Materials Science & Engr
PHD, University of Manchester Institute of Science and Technology, 2002

Castaneda-Lopez, Homero, Associate Professor
Materials Science & Engr
PHD, Penn State University, 2001

Cheng, Zheng Dong, Professor
Materials Science & Engr
PHD, Princeton University, 1999

Creasy, Terry S, Associate Professor
Materials Science & Engr
PHD, University of Delaware, 1997

Demkowicz, Michal J, Associate Professor
Materials Science & Engr
PHD, Massachusetts Institute of Technology, 2005

Elabd, Yossef A, Professor
Materials Science & Engr
PHD, Johns Hopkins University, 2001

Elwany, Alaa Mohamed, Assistant Professor
Materials Science & Engr
PHD, Georgia Institute of Technology, 2009

Fang, Lei, Assistant Professor
Materials Science & Engr
PHD, Northwestern University, 2010

Gaharwar, Akhilesh K, Assistant Professor
Materials Science & Engr
PHD, Purdue University, 2013

Grasley, Zachary C, Professor
Materials Science & Engr
PHD, University of Illinois Urbana Champaign, 2006

Green, Micah, Associate Professor
Materials Science & Engr
PHD, Massachusetts Institute of Technology, 2007

Grunlan, Jaime C, Professor
Materials Science & Engr
PHD, University of Minnesota, 2001

Grunlan, Melissa A, Professor
Materials Science & Engr
PHD, University of South Carolina, 2004

Guo, Bing, Assistant Professor
Materials Science & Engr
PHD, Tsinghua University, China, 1998
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harris, Harlan R</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Texas Tech University, 2003</td>
</tr>
<tr>
<td>Hartwig, Karl T</td>
<td>Emeritus Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Wisconsin - Madison, 1977</td>
</tr>
<tr>
<td>Hemmer, Philip R</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Massachusetts Inst of Technology, 1984</td>
</tr>
<tr>
<td>Hipwell, M Cynthia</td>
<td>EECS Eminent Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of California-Berkeley, 1996</td>
</tr>
<tr>
<td>Hwang, Wonmuk</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Boston University, 2001</td>
</tr>
<tr>
<td>Jeong, Hae-Kwon</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Minnesota, 2004</td>
</tr>
<tr>
<td>Kameoka, Jun</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Cornell University, 2002</td>
</tr>
<tr>
<td>Kane, Matthew H</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Georgia Institute of Technology, 2007</td>
</tr>
<tr>
<td>Karamek, Ibrahim</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Illinois - Urbana-Champaign, 2000</td>
</tr>
<tr>
<td>Kuo, Chun Hsin</td>
<td>EECS Associate Research Scientist</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Birmingham, 2010</td>
</tr>
<tr>
<td>Kuo, Yue</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Columbia University, 1980</td>
</tr>
<tr>
<td>Kuttolamadom, Mathew A</td>
<td>Assistant Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Clemson University, 2012</td>
</tr>
<tr>
<td>Lagoudas, Dimitris C</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Lehigh University, 1986</td>
</tr>
<tr>
<td>Le Graverend, Jean-Briac B</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Ecole Nationale de Mécanique et d'Aérotechnique, France, 2013</td>
</tr>
<tr>
<td>Liang, Hong</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Stevens Institute of Technology, 1992</td>
</tr>
<tr>
<td>Lin, Paotai</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Northwestern University, 2009</td>
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<td>Lutkenhaus, Jodie</td>
<td>Associate Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Notre Dame, 2003</td>
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<tr>
<td>Ma, Chao</td>
<td>Assistant Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of California, 2015</td>
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<tr>
<td>Madsen, Christi K</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Rutgers State University of New Jersey, 1996</td>
</tr>
<tr>
<td>Mansoor, Bilal</td>
<td>Assistant Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, University of Michigan, 2010</td>
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<tr>
<td>McDeavitt, Sean M</td>
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<td>PHD, Purdue University, 1992</td>
</tr>
<tr>
<td>McShane II, Michael J</td>
<td>Professor</td>
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<td>PHD, Texas A&amp;M University, 1999</td>
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<tr>
<td>Michaudel, Quentin</td>
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</tr>
<tr>
<td>Naraghi, Mohammad</td>
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<td>PHD, University of Illinois at Urbana Champaign, 2009</td>
</tr>
<tr>
<td>Naugle, Donald G</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Texas A&amp;M University, 1965</td>
</tr>
<tr>
<td>Needleman, Alan</td>
<td>Distinguished Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Harvard University, 1971</td>
</tr>
<tr>
<td>Nyakiti, Luke O</td>
<td>Assistant Professor</td>
<td>Materials Science &amp; Engr</td>
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</tr>
<tr>
<td>Ozmetin, Ali E</td>
<td>Research Assistant Professor</td>
<td>Materials Science &amp; Engr</td>
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<tr>
<td>Pharr IV, George M</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Stanford University, 1979</td>
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<tr>
<td>Pharr, George</td>
<td>Assistant Professor</td>
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<td>PHD, Harvard University, 2014</td>
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<td>Qian, Xiaofeng</td>
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</tr>
<tr>
<td>Radovic, Miladin</td>
<td>Professor</td>
<td>Materials Science &amp; Engr</td>
<td>PHD, Drexel University, 2001</td>
</tr>
</tbody>
</table>
Reddy, Junuthula, Professor  
Materials Science & Engr  
PHD, University of Alabama at Huntsville, 1974

Ross Jr, Joseph H, Professor  
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Seminario, Jorge M, Professor  
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Shamberger, Patrick J, Assistant Professor  
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Shao, Lin, Professor  
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Sheldon, Matthew T, Assistant Professor  
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Su, Hung-Jue, Professor  
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Masters

- Master of Engineering in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/meng)
- Master of Science in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/ms)

Doctoral

- Doctor of Philosophy in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/phd)

Certificates