

# MATERIALS SCIENCE AND ENGINEERING

The Department of Materials Science and Engineering offers B.S., M.S., and Ph.D. degrees in Materials Science and Engineering and an M.S. degree in Nanomaterials and Nanoengineering. The Nanomaterials and Nanoengineering degree is offered as a one-year named option (within the Materials Science and Engineering M.S. degree program).

Advances in technology are closely linked to the materials that people can design, manipulate, and produce. How we live is connected to our abilities to process materials and manufacture products; to develop and design nontraditional as well as traditional materials for an increasingly broad range of industries; and to research and develop high-performance materials for practical applications in coming decades. The materials that change the way we live may be the next generation of superalloys for applications in extreme conditions such as high-temperature or highly corrosive environments; new materials for application in energy generation, storage, and transmission; organic and inorganic materials for use and integration in applications ranging from electronics to medicine; or new materials systems yet to be developed for the ever-increasing needs of our society. Materials experts find employment in a broad range of industries and may practice experimental, computational, or theoretical materials science and engineering, or all of these in combination. The undergraduate curriculum leads to the Bachelor of Science Degree in Materials Science and Engineering. The curriculum is designed to prepare students with the foundation needed to thrive in broad and rapidly changing industries that are based on materials. It also provides substantial flexibility, through electives and with the assistance of a materials science and engineering faculty advisor, for tailoring to students' specific interests within the materials field. Science, engineering, teamwork, broad thinking, and communication skills all are integral parts of the curriculum. Graduates are well prepared for careers in industry or for graduate studies.

## DEGREES/MAJORS/CERTIFICATES

- Materials Science and Engineering, B.S. (<http://guide.wisc.edu/undergraduate/engineering/materials-science-engineering/materials-science-engineering-bs/>)

## PEOPLE

### PROFESSORS

Izabela Szlufarska (Chair)  
 Michael S. Arnold  
 Susan Babcock  
 Chang-beom Eom  
 Paul Evans  
 Padma Gopalan  
 Sindo Kou  
 Roderic Lakes  
 Dane Morgan  
 John Perepezko  
 Ian Robertson  
 Kumar Sridharan  
 Donald Stone

Dan J. Thoma  
 Paul Voyles  
 Xudong Wang

### ASSISTANT PROFESSORS

Dawei Feng  
 Jiamian Hu  
 Jason Ken Kawasaki  
 Daniel Rhodes

See also Materials Science and Engineering Faculty Directory (<https://directory.engr.wisc.edu/mse/faculty/>).