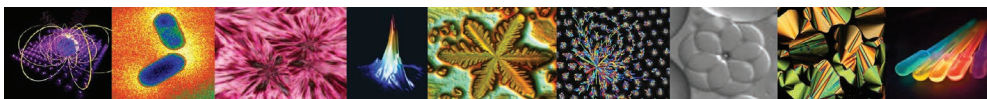


*"One of [the center's] greatest strengths is in the large number of opportunities for collaborative research, both locally at [the university] and nationally/internationally."  
-- MRSEC Graduate Student*

#### List of MRSEC Centers:

Brandeis University ●●●●●  
 Columbia University ○●○  
 Cornell University ●○●○  
 Harvard University ●●●●●  
 Massachusetts Institute of Technology ●●○  
 New York University ●●●●●  
 Northwestern University ●○●○●●  
 Pennsylvania State University ●○●○●●●  
 Princeton University ●●●●○  
 The Ohio State University ○●○●○  
 The University of Chicago ●●○●  
 University of California at Santa Barbara ●●●●●○  
 University of Colorado Boulder ●●○●●  
 University of Illinois at Urbana-Champaign ○●○●●●●  
 University of Minnesota ●●●●○●  
 University of Nebraska-Lincoln ○●○●  
 University of Pennsylvania ●●●●●  
 University of Texas at Austin ○●○●○  
 University of Washington ○●○  
 University of Wisconsin-Madison ○●○●●

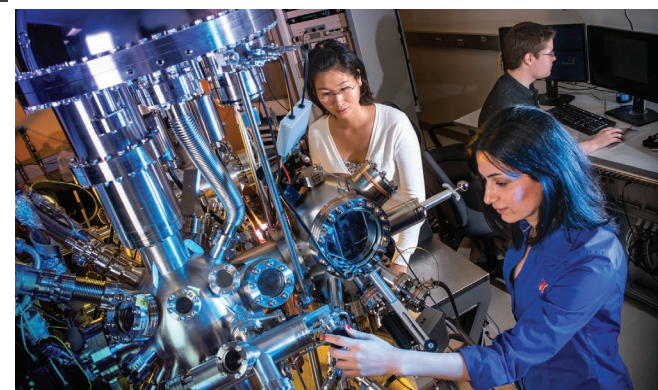
Key: ● Biomolecular/Biomimetic Materials      ● Ceramics/Metal Oxide  
 ○ Condensed Matter Phenomena      ○ Energy/Sustainability  
 ● Mechanics of Materials      ○ Multiferroics/Magnetics/Spintronics  
 ● Nanostructures/Nanoparticles      ● Polymers  
 ○ Semiconductors/Photonics/Organic Electronics      ● Soft Materials



Detailed descriptions of each MRSEC center: <http://www.mrsec.org>  
 Information for MRSEC Facilities nationwide: <http://www.mrfn.org>  
 About the NSF MRSEC Program:  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5295](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5295)



# MATERIALS RESEARCH SCIENCE & ENGINEERING CENTERS



*Interdisciplinary materials research and education addressing fundamental problems in science and engineering that are important to society*





# What is a MRSEC Center and how does it function?

*Materials Research Science and Engineering Centers (MRSECs) are supported by the National Science Foundation (NSF) to undertake materials research of scope and complexity that would not be feasible under traditional funding of individual research projects.*

## Research:

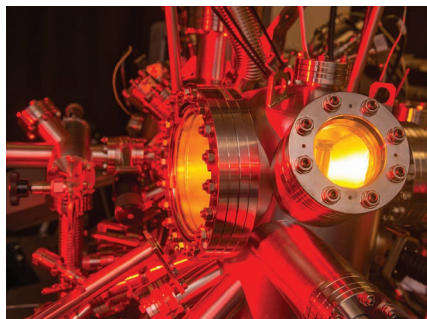
Is interdisciplinary, high quality, has intellectual breadth, and fosters the integration of research and education in the materials field.



Addresses fundamental, complex problems of intellectual and societal importance while having the flexibility to respond to new research opportunities.

Each MRSEC encompasses two or more **Interdisciplinary Research Groups (IRGs)**, involving a diverse group of faculty members, associated researchers, and students addressing a major topic in materials research.

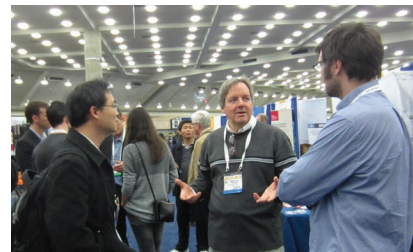
May include support for **shared experimental facilities** that are accessible to users from the Center and elsewhere, including international users.



National Science Foundation  
**M R S E C**  
MATERIALS RESEARCH SCIENCE AND  
ENGINEERING CENTERS

## Collaborations:

Engage in national and international academic partnerships.



Build relationships with industry.



May include informal science education partners.

## Outreach and Professional Development:

Stimulating interdisciplinary education in the materials field from K-12 through the postdoctoral level.

Enhancing support for underrepresented groups.



Increasing scientific literacy through public outreach events.

