WE DISCOVER
DESIGN AND
CHARACTERIZE
ADVANCED
MATERIALS
HUMANITY
NEEDS

ENERGY MATERIALS
High-endurance solar cell, fuel cell and battery materials and devices.
Biofuels, solar fuels, and sustainable energy conversion materials.
Membranes, electrocatalysts and photocatalysts.

ELECTRONIC MATERIALS
Quantum materials for quantum sensing, communication and computation.
Materials for 5G/6G communications and 3D integration.
Lasers and next-generation optical and display materials.

BIO-INSPIRED MATERIALS
Therapeutic nanoparticles, small molecules, and proteins.
Bio-inspired and bio-based materials.
3D-printed medical implants; and biomedical devices.

IMDD.ucsd.edu
“The first big win for the Institute is the $18 million NSF grant funding a Materials Research Science and Engineering Center (M RSEC) at UC San Diego. This M RSEC capitalizes on three specific strengths at UC San Diego—our leadership in materials science, our leadership in the life sciences and our position as a national resource in high performance computing.”

— Michael Sailor, Ph.D,
Director, Institute for Materials Discovery and Design
Director, Materials Research Science and Engineering Center

We are forging new paths that weave together theoretical and experimental research approaches in order to leverage data to drive innovation.

We are world leaders in nano-scale materials fabrication and characterization. We apply this expertise to accelerate our materials discovery and design.

The people we train are empowered to capture the value of their innovations. Our students lead startups and transform companies large and small.

Benefits of Partnership

- Industry-faculty-student research teams
- Recruit our top students
- Collaborate one-on-one with faculty
- Embed a visiting Industry Fellow in our labs
- Research Reviews
- Fast-track research agreements
- Access to commercialization engine with lab-to-market focus

Join Us.

Leadership

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