



UConn

materials
& ENGINEERING
science

SENIOR DESIGN EXPERIENCE

UConn
Materials Science & Engineering

S. Pamir Alpay



UConn MSE at a Glance

Degrees Offered: BS (ABET accredited), MS, MEng, PhD

Students: 152 Undergraduate students, >80 Graduate students

Graduate Degrees awarded in 2014: 18 PhD, 7 MS

Faculty: 14.5 Full-time, 14 Additional in Graduate Program, 5 Adjuncts

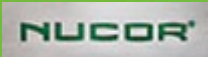
MSE Capstone Design Project Course

The MSE Capstone Design Project is a two-semester course for seniors to exercise their creativity and to apply materials science and engineering principles to solve real-world engineering problems, mentored by both MSE faculty members and industry engineers.

GENERAL DYNAMICS
Electric Boat



Industry Sponsors



Benefits

- Excellent recruiting tool
- Results in 100% job placement
- Hands-on laboratory experience
- Income to the Department
- Long-term research opportunities with companies, GOALI, SBIR/STTR, direct funding

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Promotional Video - Recruitment

Join Materials Engineering and
Meet your Future Employer through
Industry Sponsored Senior Design Projects



Watch our Video

The Materials Science & Engineering Senior Design Project is a two-semester course for seniors to exercise their creativity and to apply materials science and engineering principles to solve real-world engineering problems, mentored by MSE faculty members and industry engineers.



Links to Videos



UConn Materials Science & Engineering
Senior Design Projects



UConn MSE Labs – Hands-on Experience



Grants with Industrial Partners

- “Metals and Alloys for Electrical Circuit Breaker Contacts,” (Aindow & Alpay) General Electric Company, 12 – 14, \$581,753
- “General Electric Graduate Fellowships for Innovation,” (Ramprasad & Gao), General Electric Company, 13 – 15, \$102,000
- “GOALI: Oxide Scale Development in Coated High-Temperature Alloys for Solid-Oxide Fuel Cell Interconnects,” (Aindow & UTRC) NSF, 11 – 15, \$310,274
- “Computational and experimental studies of laser-powder interactions during additive manufacturing,” (Hebert, Dongare, Alpay) Pratt & Whitney, 14 – 16, \$560,000
- “ARPA-E: Development of an Intermediate Temperature Metal Supported Proton Conducting Solid Oxide Fuel Cell Stack,” (Maric with UTRC), DoE, 14 – 17 \$991,473
- “ARPA-E: Dual Mode Intermediate Temperature Fuel Cell: Liquid Fuels and Electricity,” (Maric & Aindow) DoE through FCE, 14 -17, \$1,923,241

