

Positions Available



PROCESS ENGINEERS/ACCOUNT TECHNOLOGISTS
Applied Materials, Inc.

Applied Materials has well-established businesses with multiple products to address diverse semiconductor technology needs. Future technologies demand ever stricter control of characteristics and device dimensions approaching physical limits. These technologies are well-suited for those who are interested in pushing technology to its limits and ever willing to challenge convention.

We are hiring highly motivated Process Engineers and Account Technologists to meet this challenge in each of the following technologies:

- Etch
- CMP
- CVD/PVD

Successful candidates will be responsible for performing process engineering research, development, and evaluation in support of Applied Materials' Etch, CMP, or Thin Films deposition systems. He/she will determine process approaches and parameters, deliver process and design fixes, conceptualize future equipment improvements and approaches leading to the design of new processes and hardware, identify key requirements and select components for process and chamber improvements, design and conduct independent experiments or tests, define problems and objectives, develop strategies and approaches, analyze results and provide recommendations, direct and manage required changes and modifications, plan and execute complex projects, and justify and roadmaps for future technologies.

Requirements:

MS/PhD degree required. Minimum 2+ years of applicable experience required, as well as an advanced knowledge of Etch, CMP, or CVD/PVD process development and strong project management, organizational, and communication skills. It is also essential that you be highly motivated and comfortable working in a fast-paced team environment.

If you are interested in a research intensive career in industry and have the relevant background, please send your resume and inquires to Paul Brown at paul_v_brown@contractor.amat.com; 408-584-2024.

Applied Materials is an Equal Opportunity Employer committed to diversity in its workforce.

ASSOCIATE OR FULL PROFESSOR
Chemical, Materials & Biomolecular Engineering Department
University of Connecticut

The Materials Science and Engineering (MSE) Program at the University of Connecticut (UConn) is accepting applications for a tenure-track faculty appointment at the associate/full professor level. The MSE Program currently comprises 12 faculty members. We wish to strengthen our research and teaching portfolio in areas such as: materials for alternative/sustainable energy applications, nanotechnology, and biomedical materials. Applications from outstanding candidates with expertise in other areas will also be considered.

Applicants should have an earned doctorate in Materials Science & Engineering, or a closely related field, a strong commitment to excellence in both undergraduate and graduate teaching, and the motivation to maintain an internationally recognized research program. Salary and rank will be commensurate with the successful candidate's background, experience, and accomplishments.

Applicants should send a full CV including a complete record of funding and journal publications; a statement of research and teaching interests; and contact details for at least four references by mail to:

Dr. Mark Aindow, MSE Program Director and Search Chair
Materials Science and Engineering Program, Unit 3136
University of Connecticut
97 North Eagleville Road
Storrs, CT 06269-3136
Email: m.aindow@uconn.edu

Applicant screening will begin immediately and continue until the position is filled.

We encourage applications from under-represented groups, including minorities, women, and people with disabilities.

**POSTDOCTORAL
RESEARCH SCIENTIST**
**Department of
Electrical Engineering**
University of Southern California

Applications are invited from outstanding candidates who have experience in the synthesis and electronic study of carbon nanotubes, nanowires, or graphene. Candidates are required to have a strong publication record and a PhD degree in a related field.

The applicant should submit a curriculum vitae, a list of publications, and a brief statement of laboratory experience. Outstanding woman candidates will have an additional opportunity to compete for the USC WISE Postdoctoral Fellowship (<http://www.usc.edu/programs/wise/>). Applications should be directed to:

Dr. Chongwu Zhou
University of Southern California
3737 Watts Way, #PHE621
Los Angeles, California 90089 USA
chongwuz@usc.edu

Candidates will be considered until the position is filled.

AA/EOE

TENURE-TRACK POSITION
**Department of Chemical Engineering
and Materials Science**
University of California, Davis

Applications are invited for a faculty position at the Assistant Professor level in Thermodynamics of Materials with an experimental emphasis focusing on problems related to energy, nanomaterials, and complex materials. Commitment to cross-disciplinary undergraduate and graduate education is essential. A PhD degree in materials science, chemical engineering, chemistry, or related discipline is required. The successful applicant will have access to the Peter A. Rock Thermochemistry Laboratory which is a center of excellence in calorimetric measurements as well as to other characterization equipment in the departmental central facilities, the NEAT ORU (<http://neat.ucdavis.edu/>), and elsewhere on campus.

Consult <http://www.chms.ucdavis.edu/employment/> for our on-line application procedure and requirements. The position is open until filled; but to assure full consideration, applications should be submitted no later than **October 30, 2007**, for a start date of July 1, 2008.

UC Davis is an affirmative action/equal opportunity employer, and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities, and veterans.

Positions Available

LASER ACOUSTICS RESEARCHER
Materials Characterization Department
Idaho National Laboratory

The Materials Characterization Department at the Idaho National Laboratory (INL) is seeking applications for a research position in laser acoustics at the advanced graduate or PhD degree level. Activities include research, development, and application of methods to characterize materials via the use of noncontacting laser ultrasonic, thermal wave imaging, and resonant ultrasound spectroscopy in hostile environments. Research entails a combination of theory, modeling, and experiment to quantify measurement methods and demonstrate new concepts. In addition, expert advice and experience are needed to assist in the development and implementation of fieldable systems in challenging nuclear environments. The researcher will also find many opportunities to collaborate with a variety of physical scientists, materials scientists, and engineers to solve real world problems in nondestructive evaluation and materials characterization using multiple characterization technologies in addition to laser acoustics.

The successful candidate will be expected to offer leadership to a technical staff of engineers and scientists performing state-of-the-art research at the nation's lead nuclear energy research laboratory. The researcher will support ongoing programs, initiate new areas of research within the laser acoustic and nondestructive evaluation arena, develop proposals, and produce peer-reviewed publications. A PhD degree in a relevant scientific or engineering discipline is required.

Interested candidates should apply online at www.inl.gov, Job Posting # 003316.

EOE

FACULTY POSITION
**Departments of Physics/
 Astronomy and Chemistry**
Virginia Military Institute

The Departments of Physics/Astronomy and Chemistry at the Virginia Military Institute invite applications for a full-time interdisciplinary assistant professor position in materials science, beginning in August 2008. A PhD degree in Chemistry, Physics, Materials Science, or related field is required. Applications from candidates with experience in the synthesis, characterization, and application of organic materials to thin film devices are strongly encouraged but all areas of interdisciplinary expertise will be considered. Teaching responsibilities include general courses in chemistry and physics, advanced courses in one's specialty, and direction of undergraduate research.

The position is a joint initiative of the Chemistry and Physics/Astronomy Departments and focuses on undergraduate research as a model for student learning. Both departments have a wide range of modern instrumentation, and together have seventeen full-time faculty. VMI is a state-supported, coeducational, national, liberal arts college of 1300 students with a strong commitment to produce educated, responsible citizens. VMI faculty and students wear military uniforms, but no prior military experience is required.

Applicants should send a vita, three letters of reference, copies of transcripts, a statement of teaching interests, and a description of research interests and goals to: Dr. Gregory Topasna, Department of Physics and Astronomy, Virginia Military Institute, Lexington, VA 24450-0304; TopasnaGA@vmi.edu. Review of applications will commence **15 September 2007** and continue until the position is filled.

VMI is an EEO employer.



FACULTY POSITIONS
**School of Materials Science and
 Engineering**
Georgia Institute of Technology

The School of Materials Science and Engineering at the Georgia Institute of Technology is seeking to add several outstanding faculty at all levels in strategic areas of Biomaterials (including biomanufacturing, biomineralization, biosensing, bioelectronics, biophotonics, and biomodeling); Nanomaterials (including synthesis, advanced characterization, fabrication of nano devices and systems, and modeling and measurements of properties); Materials for Sustainable Energy, as well as the fields of Advanced Ceramics and Metallurgy.

Qualified candidates must hold a PhD degree or equivalent in materials science and engineering, or related science/engineering discipline. The candidates must possess a distinguished record of research accomplishments and publications, and the ability to mentor graduate students and develop an innovative research and educational program. Successful candidates will be expected to attract external funding and build a strong sponsored-research program, lead independent research at the cutting edge of their field, and teach undergraduate and graduate courses.

The School of Materials Science and Engineering (www.mse.gatech.edu) boasts diverse expertise of faculty with almost equal shares of expertise in structural, electrical, nano-, and bio-materials. It is the hub of materials related research and education activities at the Georgia Institute of Technology. A number of faculty hold joint appointments in various schools and colleges on campus. Its internationally-recognized faculty led more than a dozen interdisciplinary research centers and programs. The School of Materials Science and Engineering and the College of Engineering at Georgia Institute of Technology are amongst the top-ranked programs in the U.S.

Applications with the following documents should be submitted online at <https://www4.me.gatech.edu/mse/facrecruit/apply/index.asp>:

- Cover letter (optional)
- Curriculum vitae (required)
- Statement of research interest (required)
- Statement of teaching philosophy (required)
- List of references (required)
- Other documents (optional)

Applications will be considered until the positions are filled.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer. Applications from women and under-represented minorities are strongly encouraged.

**POSTDOCTORAL
 RESEARCH POSITION**
**Department of Materials Science
 and Engineering**
University of Florida

The Department of Materials Science and Engineering at the University of Florida invite applications for several Postdoctoral Research Associate positions in the area of organic photodetectors and organic/inorganic photovoltaics. The candidate is expected to have research experience in the following areas: fabrication and processing of organic electronic devices, device physics, optical and electrical characterization, organic photovoltaics, inorganic thin film photovoltaics, nanoparticle synthesis, and/or quantum dot devices. The successful candidate is expected to be a highly motivated individual with good communication skills.

Applicants should send a CV, a statement of research experience and interest, and a list of publications to the attention of Ms. Alice Holt, Department of Materials Science and Engineering, University of Florida at aholt@mse.ufl.edu. Please reference "Postdoc Position" in the subject line.

AA/EOE