

Positions Available

Washington State University **DIRECTOR**
SCHOOL OF MECHANICAL AND MATERIALS ENGINEERING

The College of Engineering and Architecture at Washington State University invites applications and nominations for the position of Director, School of Mechanical and Materials Engineering, effective August 16, 2000. A Ph.D. in Mechanical Engineering, Materials Science or a closely related field is required. Candidates should have a superior record in research and teaching at the full professor level. Preference will be given to candidates with demonstrated administrative capabilities and academic leadership. The position is at the rank of Professor with tenure. The initial appointment is for a four-year period with the possibility of reappointment. The appointment is for 12 months and salary is negotiable, commensurate with qualifications and experience.

The School of Mechanical and Materials Engineering is one of five engineering departments in the College of Engineering and Architecture at Washington State University. The School consists of three campuses: the main campus at Pullman with 23 faculty and the two branch campuses -- Tri-Cities and Vancouver each with four full-time faculty on site. The School maintains comprehensive research and instructional programs in Mechanical Engineering, Materials Science and Engineering, and Manufacturing Engineering. The School offers B.S., M.S., and Ph.D. Degrees in Mechanical and Materials Science and Engineering. A new B.S. in Manufacturing Engineering is offered at the Vancouver campus. Current research thrusts are in MEMS, turbulence, combustion, nonlinear dynamics and controls, two-phase flow, manufacturing processes and automation, virtual reality applications, CAE systems integration, solid mechanics, heat transfer, thin films, superplasticity, intermetallic materials, fracture mechanics, deformation mechanisms, embrittlement phenomena, corrosion, electronic materials, composites, wood technology and adhesion. Research capabilities have recently been enhanced by the opening of a new Engineering Teaching and Research Laboratory building in Pullman. A new engineering laboratory building is under construction on the Vancouver campus.

Applications and nominations should be sent to:
 MME Director Search Committee
 School of Mechanical and Materials Engineering
 Washington State University, Pullman, WA 99164-2920

Screening of applicants will begin January 1, 2000, and will continue until the position is filled. *Washington State University is an EEO/AA employer. Protected group members are encouraged to apply. All new employees must show employment eligibility verification as required by the U.S. Immigration and Naturalization Service.*

FACULTY POSITIONS
Department of Mechanical Engineering
University of Houston

The University of Houston, Department of Mechanical Engineering invites applications for two tenure-track faculty positions effective as early as fall of 2000. Appointments are expected to be made for two endowed Assistant Professors. Appointments at the Associate or Full Professor level may be considered but only in extraordinary circumstances.

The primary qualifications for these positions, in addition to an earned doctorate, are demonstrated ability to perform top quality research, a commitment to excellence in teaching at both the undergraduate and graduate levels, and the potential to acquire support for research. We are seeking individuals with research interests in materials science and engineering, intelligent systems, or biomechanical engineering.

Applicants should send a detailed resume, a summary of research and teaching interests, and a list of at least three references to Faculty Search Committee, Department of Mechanical Engineering, University of Houston, Houston, TX 77204-4792. Review of applications will begin on **February 1, 2000**, but applications will be accepted until these positions are filled. Applicants are encouraged to visit our website at <http://www.me.uh.edu> for more details on each of these positions.

The University of Houston is an equal opportunity/affirmative action employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

Materials Scientist


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Requires an MS or Ph.D in Materials Science/Engineering or related discipline, and strong relationships within the academic network. Thorough understanding of the interrelation between material properties and device physics of thin film semiconductor or ferroelectric materials is essential. Familiarity with analytical tools such as SEM and XRD is a must.

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FACULTY POSITION IN MATERIALS SCIENCE AND ENGINEERING
University of Utah

The Department of Materials Science and Engineering at the University of Utah is accepting applications for a tenure track faculty position at the Assistant Professor level. The candidate must have a Ph.D. degree in a materials related field with primary interest in the area of ceramics. Preferred areas of expertise include materials theory and computational material science, or electronic ceramics. The successful candidate will be expected to teach at both the undergraduate and graduate levels, and to develop an independent research program. The position is expected to be filled before Fall, 2000. Review of applications will begin immediately, but the search will remain open until the position is filled. Deadline for receiving the applications is March 31, 2000. Applicants should submit a curriculum vitae, a summary of research accomplishments and future research plans, and the names of three references to: Prof. Anil V. Virkar, Department Chair, c/o Search Committee Secretary, University of Utah, Department of Materials Science and Engineering, 122 S. Central Campus Drive, Room 304, Salt Lake City, UT 84112-0560.

The University of Utah is an Equal Opportunity Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.



Positions Available

**TENURE-TRACK ASSISTANT
PROFESSOR
Materials/Optical Physics
The University of Iowa**

The Department of Physics and Astronomy (<http://www.physics.uiowa.edu>) at the University of Iowa invites applications for a materials/optical physicist in the area of semiconductor, device, or laser physics. A broad interdisciplinary effort in these areas exists at the University of Iowa as a part of the Optical Science and Technology Center (<http://ostc.physics.uiowa.edu/~ostc>.) Current research efforts in the Department include materials growth, ultrafast optical spectroscopy, and materials theory. This is a tenure-track assistant professor position that requires a PhD degree by the date of appointment.

Please send a CV, statements of research and teaching interests, and arrange for three letters of recommendation to be sent to Chair, Faculty Search Committee, Department of Physics and Astronomy, The University of Iowa, Iowa City, IA 52242-1479. For fullest consideration, application material should be received by **January 14, 2000**.

The University of Iowa is an EEO/AA employer. Women and minorities are encouraged to apply.

**FACULTY POSITION
Department of Mechanical
Engineering
Yale University**

The Department of Mechanical Engineering at Yale University is seeking a faculty member in materials science/solid mechanics at the junior level. The department will consider outstanding candidates with expertise in theoretical, computational, or experimental aspects of materials science/solid mechanics. Faculty members are expected to teach both undergraduate and graduate courses, advise graduate students, and develop a strong sponsored research program.

Candidates should send a letter of interest with a resume, a statement of teaching and research interests, copies of three principal publications (where appropriate), and names, addresses, and telephone numbers of three references to:

Chair, Materials/Solids Search
Committee
Department of Mechanical
Engineering
Yale University
P.O. Box 208284
New Haven, CT 06520-8284

Deadline for applications is **February 1, 2000**.

Yale University is an equal opportunity employer.

**JUNIOR/SENIOR FACULTY
Materials Science and Engineering
Virginia Polytechnic Institute and State University
(Virginia Tech)**

Applications are invited for junior and senior faculty positions in the Materials Science and Engineering Department at Virginia Tech. Candidates must have a dedication to education and a strong record of research performance for the senior position, or a commensurate record of research for the junior position.

The department is especially interested in persons with ceramic engineering or science backgrounds, however, strong candidates with any other materials background will be seriously considered. The successful candidate will be expected to: 1) effectively teach students at both the undergraduate and graduate levels; 2) implement and maintain a major contract research program; 3) attract, advise, and fund graduate students; and 4) assist and advise related materials efforts at the University and throughout the State of Virginia.

The department has approximately 75 undergraduate students, 50 graduate students, and offers a broad curriculum covering metallic, ceramic, polymeric, electronic, and composite materials. It is the only department in Virginia offering a baccalaureate degree in MSE. The department has 18 faculty (9 jointly appointed with other departments), participates in roughly ten research centers, and has research activity at the University's Alexandria Research Institute (a graduate research facility in the Washington, DC area). The department's annual research budget is \$2 million. Virginia Tech is located 45 miles west of Roanoke in the scenic foothills of the Blue Ridge Mountains. A growing corporate research center is located adjacent to the campus. Additional details are available through the department's web page at <http://www.mse.vt.edu>.

Screening of candidates will begin **February 15, 2000** and continue until the position(s) is (are) filled. Applications and inquiries should be directed to:

Prof. J.J. Brown, Faculty Search Chair
c/o Ms. Tracey Keister, Executive Secretary
Virginia Tech, Department of Materials Science and Engineering
213 Holden Hall, Mail Code 0237, Blacksburg, VA 24061
E-mail: jjbrown@vt.edu

Individuals with disabilities desiring accommodations in the application process should notify Tracey Keister, Materials Science and Engineering, 1-540-231-9469, Virginia Telecommunications Relay Service 1-800-828-1120.

Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities.

**SENIOR FACULTY POSITION
Sensor Platforms
Auburn University**

The Materials Research and Education Center at Auburn University is seeking a "world-class" senior faculty member specializing in sensor platforms. It is anticipated that the successful applicant will be suitable for appointment at the full professor level (however, truly outstanding candidates appropriate for an associate or assistant professor position may be considered). The salary level for the position will be highly appropriate for an outstanding individual with a well established international reputation.

The successful candidate will have a background in materials science/engineering or a related discipline. Applicants must have documented expertise in sensors for chemical and/or biological detection. This position will require active participation in a large-scale, cross-disciplinary effort to develop engineered detection systems for biological and chemical hazards. The successful candidate will also be expected to establish a strong individual research program in sensor platforms and lead new group research activities. The appointee will teach both undergraduate and graduate courses in materials engineering and develop innovative cross-disciplinary instructional activities.

Applicants should send a detailed resume including a list of three (or more) referees, plus a one-page bullet-point summary of achievements and proposed future activities to: Faculty Search, Attn: William F. Gale, Associate Professor, Auburn University, Materials Research and Education Center, 201 Ross Hall, AL 36849 or e-mail to wfgale@eng.auburn.edu. Review of applications will begin on **March 31, 2000** and will continue until a candidate is recommended for appointment. Questions regarding this position should be sent to Dr. Gale, preferably via e-mail. Please use the words "Faculty Search" as the subject line of all e-mail messages containing either queries or applications. General background information on Auburn University can be found at www.auburn.edu. An introduction to Materials Engineering at Auburn is available at materials.auburn.edu.

Auburn University is an Affirmative Action, Equal Opportunity Employer and an Equal Opportunity Educational Institution. Minorities and Women are Encouraged to Apply.

FACULTY POSITIONS
MICHIGAN STATE UNIVERSITY
COLLEGE OF ENGINEERING

The College of Engineering at Michigan State University seeks to fill nine tenure-track faculty positions starting in August 2000. Appointments will be made at ranks appropriate to the credentials of the successful candidates. For full consideration, applications should be submitted by **February 14, 2000**.

Candidates should have a PhD degree in an appropriate discipline and have a strong commitment to research and teaching at both the graduate and undergraduate levels. The College encourages interdepartmental collaboration in all areas including computational methods, composite materials, manufacturing processes, nanotechnology, embedded systems, and biotechnology. Candidates with related expertise in such crosscutting areas can be appointed in an appropriate department yet have an excellent opportunity to interact with colleagues throughout the College.

Positions are available in the following Departments:

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|--|---|
| Chemical Engineering (CHE) | Civil and Environmental Engineering (CEE) |
| Computer Science and Engineering (CSE) | Electrical and Computer Engineering (ECE) |
| Materials Science and Mechanics (MSM) | Mechanical Engineering (ME) |

AREAS OF PRIMARY INTEREST:

AREA 1: Computational thermo-fluids; experience in modeling sprays, combustion processes, and/or turbulent flow processes is desirable. Interaction is expected with the faculty of the Engine Research Lab, and with the computational groups in ME and CHE. Interaction is also possible with the Micro and Nano Engineering Center.

AREA 2: Computer architecture, distributed systems, computer networks, hardware-software codesign, and a wide range of areas related to mobile computing and embedded systems. Collaboration with faculty in CSE and ECE is possible.

AREA 3: Experimental, computational, or theoretical solid mechanics with preference for an individual with research interests in the area of biomechanics. Interaction is possible with faculty in MSM, CSE and ME, and the Colleges of Human Medicine, Osteopathic Medicine, and Veterinary Medicine.

AREA 4: Communications including wireless communications and signal processing. Wireless communications with an emphasis in mobile radio systems and wave propagation, small antennas, propagation path diversity, networking hardware and performance, satellite communications. Digital and analog signal processing with emphasis in signals and linear systems, digital signal design, detection and estimation theory. Interactions with faculty in ECE and CSE.

AREA 5: Automotive electronics and systems including electronic circuit analysis and design, power electronic components and systems, sensors, electronics for energy conversion and motion control, analog/digital system integration, design automation, electromagnetic compatibility. Interactions with faculty in ECE, CSE and ME.

AREA 6: Structural engineering, innovative structural materials or systems, structural steel, experimental investigation, structural mechanics and dynamics. Interaction with the MSU Composite Materials and Structures Center and faculty in CEE, MSM and ME desired.

AREA 7: Design, operations and safety of transportation systems, intelligent transportation systems and/or GIS/GPS/remote sensing applications in civil engineering. Collaboration with CEE and the MSU Center for Remote Sensing and GIS desired.

AREA 8: Biochemical and/or environmental engineering. A research focus in the areas of bioremediation and biological processes in the environment and/or in bioprocessing, metabolic engineering or bioseparations is desired. Candidate should possess a strong basic science background, for example in biochemistry, microbiology, biodegradation processes and/or molecular biology. Potential faculty interactions with CHE, CEE, the Departments of Microbiology, Biochemistry, Chemistry, Botany and Plant Pathology, and the Department of Energy Plant Research Laboratory and the Center for Microbial Ecology.

AREA 9: Polymer science and engineering, polymer reaction engineering, computer modeling of polymer processes, bio-based polymers. Special interest in computational fluid dynamics of structured polymer and particulate materials, numerical analysis and applications to predicting the microstructures and flow of polymeric materials. Interactions with faculty in CHE, CSE, MSM, ME, and the Departments of Agricultural Engineering, Packaging, Chemistry and Mathematics and the MSU

Michigan State University enjoys a park-like campus of 2,100 developed acres and 3,100 acres of outlying research facilities and natural areas. The campus is adjacent to the cities of East Lansing and the capital city, Lansing. The Greater Lansing area has approximately 250,000 residents. The local communities have excellent school systems and place a high value on education. Together with the University, the area provides excellent cultural and entertainment opportunities.

Applicants should send a letter of intent (indicating area, or areas, of interest), the names of three references, and a statement of research and teaching interests to:

Associate Dean for Research and Graduate Studies
Faculty Search Committee
College of Engineering
3410 Engineering Building
East Lansing, MI 48824-1226

Michigan State University has a history of exploring opportunities for the employment of spouses. For additional information about the available faculty positions, the College, the Departments and the University, see <http://www.egr.msu.edu>.

Michigan State University is an Equal opportunity/Affirmative Action Employer institution.

Positions Available

FACULTY POSITION
Department of Electrical Engineering
The Ohio State University

The Department of Electrical Engineering at The Ohio State University invites applications for an immediate faculty position opening in the area of electronic, optoelectronic, and/or photonic materials and devices, to work within a rapidly growing and highly interdisciplinary research thrust involving faculty members from the Departments of Electrical Engineering, Physics, Materials Science and Engineering, and the OSU Center for Materials Research. Outstanding applicants who have research expertise in processing and fabrication of advanced semiconductor devices and/or nanostructures are sought; however, applicants with significant research experience in any area relevant to electronic and optoelectronic materials and devices and at all levels will be considered.

Applicants must have a PhD degree in electrical engineering or a related field, outstanding academic credentials, potential for developing research programs, and an interest in teaching at the undergraduate and graduate levels. Depending upon candidate qualifications, a jointly appointed position with the Departments of Physics or Materials Science and Engineering will be established.

Each applicant should prepare a one- to two-page statement describing research plans as well as the significance and context of prior research. Application packages consisting of resume, research statement, and three references (name, address, e-mail, and fax) should be sent to:

Professor Yuan F. Zheng
 Chairman, Department of
 Electrical Engineering
 The Ohio State University
 205 Drees Laboratory
 2015 Neil Avenue
 Columbus, OH 43210-1272



The Ohio State University is an equal opportunity/affirmative action employer.

RESEARCH SCIENTIST
Materials and Processes Laboratory
GM R&D and Planning

Applicants are invited for the position of Research Scientist in the Materials and Processes Laboratory. Individuals are sought with demonstrated potential, creativity, and flexibility in the areas of Computational Materials Science:

- First principles based studies of solids, surfaces, and interfaces
- Molecular dynamics simulations of nanomechanics and nanotribology, including friction, wear, adhesion, and lubrication
- Molecular modeling of thin film growth and structure
- Meso-scale modeling of deformation and fracture of metals, ceramics, and polymers

Requirements:

A PhD degree in a relevant area is required. Academic or industrial experience is preferred. Strong verbal and written communication skills as well as the ability to function in a team environment are also required.

Send resumes, including academic transcripts, to:

Sue Eschberger
 Materials and Processes Laboratory
 MC 480-106-224
 GM R&D and Planning
 30500 Mound Road
 Warren, MI 48090-9055
 E-mail: careers@spock.gmr.com

AA/EOE

FACULTY POSITION IN
ELECTRONIC MATERIALS

MATERIALS SCIENCE AND
ENGINEERING DEPARTMENT

University of Utah

The Department of Materials Science and Engineering at the University of Utah is accepting applications for a tenure track faculty position at the Assistant Professor level. The candidate must have a Ph.D. degree in a materials related field with primary interest in the area of electronic materials. Preferred areas of expertise include epitaxial growth of semiconductors, theoretical and computational materials science, or electronic ceramics. The successful candidate will be expected to teach at both the undergraduate and graduate levels, and to develop an independent research program. The position is expected to be filled before Fall, 2000. Review of applications will begin immediately, but the search will remain open until the position is filled. Deadline for receiving the applications is March 31, 2000. Applicants should submit a curriculum vitae, a summary of research accomplishments and future research plans, and the names of three references to: Prof. Anil V. Virkar, Department Chair, c/o Search Committee Secretary, University of Utah, Department of Materials Science and Engineering, 122 S. Central Campus Drive, Room 304, Salt Lake City, UT 84112-0560.

The University of Utah is an Equal Opportunity Affirmative Action Employer and encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.



RESEARCH SCIENTIST
Department of Materials Science and Engineering
University of Virginia

The Department of Materials Science and Engineering of the University of Virginia invites applications for the position of Research Scientist. Candidates are sought with expertise in the area of processing and noncontact sensing of properties of low density materials. Special attention will be given to persons with expertise in deposition and property measurements for metals onto polymer, ceramic or carbon foam and micro-truss structure parent materials, utilizing laser ultrasonics as the preferred method for property measurement. The primary responsibilities of the individual in this position will be to participate in the execution of major funded research programs in the area of low density, multifunctional materials and structures, and to participate in the direction of the research of graduate students and research associates. An earned doctorate in materials science and engineering or a related area, and a demonstrated ability to publish original research in refereed technical journals, as well as to make oral presentations of research, are required.

Interested individuals should send a complete resume and list of publications, with the names and addresses of at least three references (include e-mail address) by **January 31, 2000**, to Contact Person: Dr. Phillip A. Parrish, Co-Director, Intelligent Processing of Materials Laboratory, School of Engineering and Applied Science, University of Virginia, Thornton Hall A-127, Charlottesville, VA 22903. Additional information on the Department of Materials Science and Engineering can be found at <http://www.mse.virginia.edu>. To learn more about the UVa/Charlottesville/Albemarle County area see <http://www.virginia.edu/wlcm.html>.

The University of Virginia is an equal Opportunity/Affirmative Action Employer. Applicants must be able to lawfully accept employment in the United States.

Positions Available

FACULTY POSITION Department of Materials Science and Engineering University of Washington

The Department of Materials Science and Engineering seeks a new tenure-track faculty member to begin Autumn Quarter 2000. Outstanding candidates from all fields of materials science and engineering will be considered for this position. The Department, College of Engineering, and the University of Washington are committed to excellence in both education and research. Successful applicants will be expected to provide innovative and quality teaching that integrates research with instruction. They will be expected to teach both undergraduate and graduate courses within the Department and to develop high quality interdisciplinary research programs. Applicants must have earned a doctorate by the date of appointment.

For a position with a focus on ceramics, the Department prefers an individual at the rank of associate professor or professor, but will consider candidates for appointment at the rank of assistant professor. Outstanding individuals will be considered for the College of Engineering's endowed Robert J. Campbell Chair in Ceramic Engineering. To be considered for the endowed Chair, applicants must have an understanding and appreciation of industrial applications of ceramic engineering or technology.

UW currently has the highest level of federal funding of all public universities. The MSE department currently has 12 faculty, 90 undergraduates, and over 50 graduate students. In addition to activities within the MS&E department, the UW community has many other areas of materials research strength, and the Pacific Northwest community is characterized by a very vibrant and diverse materials industry. Information about the department is available at <http://weber.u.washington.edu/~material/>.

Applicants should include the following documents and information with their letter of application: a detailed resume, a list of publications, a clear and concise statement of teaching and research interests and objectives (2 page maximum), and the name, mailing address, telephone number, and e-mail address of at least five professional references. This information should be sent to MSE Faculty Search Committee, Department of Materials Science and Engineering, Box 352120, University of Washington, Seattle, WA 98195-2120. Applications will be accepted until **March 1, 2000**, or until the position is filled.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity, Affirmative Action Employer.

FACULTY POSITIONS Chemical and Materials Engineering Department University of Kentucky

The Chemical and Materials Engineering Department at the University of Kentucky is pleased to announce new tenure-track positions in the general area of materials synthesis. These positions have been funded by a special program from the state to promote interdisciplinary research in materials on our campus.

The Department currently has eleven chemical engineering faculty and eight materials engineering faculty, about 45 graduate students and 280 undergraduates. Active areas of research include environmental engineering, biotechnology, membrane sciences, transport phenomena, advanced carbon materials, metal processing and physical metallurgy, controlled polymer microstructure, ceramic materials processing, ceramic thin films, synthesis and characterization of nanophase materials, fiber composite materials, polymer processing in supercritical fluids, interfacial phenomena in composite materials, and computational nanometer-scale material design. The Department is associated with the Materials Characterization Facility, which has modern and materials characterization instruments.

Successful candidates will be expected to develop vigorous research programs that complement those inside and outside the department, including the significant materials research programs in the departments of physics, chemistry, and electrical engineering. Other units with interests in collaboration include the Center for Applied Energy Research, the Center for Biomedical Engineering, the Center for Computational Sciences, the Center for Membrane Sciences, Mathematics, Medicinal Chemistry, Pharmaceuticals, the Center for Advanced Carbon Materials (an NSF-sponsored MRSEC), and the newly formed Center for Aluminum Technology.

Research areas of special interest include biomaterials, nanoparticles, high temperature ceramics and magnetic materials, however, all topics related to materials synthesis and processing will be considered. Preference will be given to applicants at the Assistant Professor level, although outstanding candidates at the Associate and Full Professor levels will be given strong consideration.

Please send application materials (a resume and a list of three references) by **January 15, 2000** to:

Eric A. Grulke, Professor and Chair, Chemical and Materials Engineering
University of Kentucky, Lexington, KY 40506-0046

Tel: 606-257-4958; Fax: 606-323-1929

E-mail: egrulke@engr.uky.edu; <http://www.engr.uky.edu/CME/cmehome.html>

The University of Kentucky is an equal opportunity employer.

PROGRAM DIRECTOR Ceramics Division of Materials Research National Science Foundation

The National Science Foundation's (NSF's) Division of Materials Research (MPS Directorate) is seeking qualified applicants for the position of Program Director for the Ceramics Program to commence in the summer of 2000. This position may be filled on a permanent basis or for a period of one to two years on a visiting scientist or temporary basis, or via the Intergovernmental Personnel Act (IPA) Program. IPA applicants must be permanent, career employees of eligible organizations for at least 90 days prior to entering into a mobility assignment agreement with NSF. Reimbursement of salary and other related costs are negotiated between NSF and the individual's institution.

Applicants must have a PhD or ScD degree or equivalent experience in ceramics or ceramic engineering, materials science and engineering, or a related field, plus six or more years of successful research, research administration, and/or managerial experience beyond the PhD degree. Familiarity with a broad spectrum of contemporary ceramics research and the academic materials research community and demonstrated administrative ability are essential. Applicants who are multifaceted and have multidisciplinary experience and capabilities are desired.

The salary range, which includes a locality pay adjustment, is currently from \$68,570 to \$106,868 per annum depending on qualifications and experience. Applicants must submit a resume stating current salary, and up to three letters of recommendation to the National Science Foundation, Attn: Sybil Smith, Division of Human Resource Management, Suite 315, 4201 Wilson Blvd., Arlington, VA 22230. When applying, refer to Vacancy Announcement No. EX 00-12. If interested on a permanent basis refer to Vacancy Announcement No. EX 00-14.

Applications should be submitted by **April 1, 2000**. For general information, call Ms. Smith at 703-306-1185, ext. 3090. For technical information, call Dr. W. Lance Haworth, Executive Officer, Materials Research, at 703-306-1815. Hearing-impaired individuals should call TDD, 703-306-0189. Qualified individuals who are women, ethnic/racial minorities, and/or persons with disabilities are strongly encouraged to apply.

NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

Positions Available

**TENURE-TRACK FACULTY POSITIONS
Advanced Materials Processing and Analysis Center (AMPAC)
University of Central Florida**

As part of a major multidisciplinary initiative to advance materials technology, the University of Central Florida invites applications for at least five new faculty positions at all levels. Applications are sought in all areas of materials including materials chemistry, materials physics, and materials engineering, particularly but not restricted to applications in the field of miniaturization, sensors, electronics, optics, nanomaterials, polymers, ceramics, high temperature materials, thin films, microlithography, and multiphase technology.

We are seeking outstanding candidates with demonstrated skill or potential of establishing strong federally-funded interdisciplinary research programs. The successful candidates will also have history of collaboration with industries and excellent teaching abilities at the graduate and undergraduate level.

The University of Central Florida is a comprehensive university located in Orlando, Florida with a current enrollment of approximately 32,000 students. Orlando and the surrounding area is quickly becoming Florida's high tech region providing opportunities to collaborate with Lucent Technologies, Harris Semiconductor, Oracle, Lockheed-Martin, Siemens-Westinghouse, NASA-KSC, and others. The Advanced Materials Processing and Analysis Center (AMPAC) of the University of Central Florida is a State University System recognized center for the advancement of materials technology with recurrent funding. AMPAC joins the rank of other successful centers at UCF such as Center for Research and Education in Optics and Lasers (CREOL), Institute for Simulation and Training (IST), and the Florida Solar Energy Center (FSEC).

A PhD degree in materials science and engineering, or closely related disciplines such as chemistry, physics, optics, electrical engineering, mechanical engineering, etc. is a minimum requirement. The expected start date is fall of 2000. The applications will be reviewed beginning **January 15, 2000** and will continue to be reviewed until all positions are filled.

Applicants should direct their curriculum vitae with the names of minimum three references and a brief research and teaching plan to: Dr. Vimal Desai, Director, AMPAC, 12424 Research Parkway, Suite 408, University of Central Florida, Orlando, FL 32826; phone: 407-207-4966; fax: 407-207-4967; E-mail: vdesai@mail.ucf.edu

The University of Central Florida is an Equal Opportunity/Affirmative Action Employer



**FACULTY POSITION
Applied Physics
California Institute of Technology**

The Applied Physics program at Caltech invites applications for a tenure-track position as assistant professor. We are interested in highly qualified candidates who are committed to research and teaching in areas in which fundamental physical principles are applied to important technological problems. The initial term of appointment is normally for four years, and appointment is contingent upon completion of a PhD degree.

Interested candidates should submit a resume, publication list, and a less-than-five-page research prospectus via electronic submission. Please attach your resume/prospectus file in an e-mail addressed to haa@daedalus.caltech.edu. Make the e-mail subject "aphcit search" and use your name as the resume/prospectus file name. Submission of Adobe *.pdf files is encouraged, however, Word 5.x, 6.x, 98 for Mac or Word 95, or 6.x and 7.x for Windows will be accepted. Applications will be accepted through **March 1, 2000**. Applicants should also complete the registration form at the URL <http://www.cco.caltech.edu/~aphhome/register.html>.

Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and disabled persons are encouraged to apply.

**FACULTY POSITION
Thayer School of Engineering
Dartmouth College**

Thayer School of Engineering at Dartmouth College is seeking a faculty member in the area of mechanical systems and/or solid mechanics. Preference will be given to candidates whose research interests overlap with those of other faculty members, such as controls, biomedical engineering, materials, and computational methods in mechanical engineering. Appointments will be offered at the Assistant, Associate, or Full Professor level.

To be considered, candidates should have established a well-funded research program. They will be expected to teach undergraduate and graduate courses within the interdisciplinary program at Thayer School, and thus should have demonstrated excellent ability and experience in teaching.

Further information about Thayer School of Engineering at Dartmouth College can be found at <http://engineering.dartmouth.edu>.

Candidates should send a letter of application, a curriculum vitae, a statement of teaching and research interests, and a list of three referees to:

Chair, Search Committee, Prof. Horst J. Richter
Thayer School of Engineering, Dartmouth College, Hanover, NH 03755-8000

Review of the applications will start in **February 2000**, and will continue until the position is filled.

Dartmouth College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.



**DIRECTOR OF
INDUSTRIAL OUTREACH
Princeton Materials Institute
Princeton University**

Princeton Materials Institute, Princeton University has an open position for a Research Staff member. The successful candidate will perform research related to interactions between academia, industry, and the government in the broad arena of materials science and engineering, including the societal role of materials and public policy. The candidate will also develop an industry outreach program in consultation with the Princeton Materials Institute (PMI) faculty, having the objective of creating a high level of collaboration between PMI and industry. The candidate should have an advanced degree in science or engineering and experience in the policy arena, through involvement with industry/government offices.

Interested candidates should send application to Search Committee, Director of Industrial Outreach, Princeton Materials Institute, Princeton University, 70 Prospect Avenue, Princeton, NJ 08540. Princeton University offers excellent benefits and vacation package.

AA/EOE

Positions Available

**PROGRAM DIRECTOR
Materials Theory
Division of Materials Research
National Science Foundation**

The National Science Foundation's (NSF's) Division of Materials Research (MPS Directorate) is seeking qualified applicants for the position of Program Director for the Materials Theory Program to commence in the fall of 2000. This position may be filled for a period of one to two years on a visiting scientist or temporary basis, or via the Intergovernmental Personnel Act (IPA) Program. IPA applicants must be permanent, career employees of eligible organizations for at least 90 days prior to entering into a mobility assignment agreement with NSF. Reimbursement of salary and other related costs are negotiated between NSF and the individual's institution.

Applicants must have a PhD degree or equivalent experience in condensed matter physics, materials science and engineering, solid-state chemistry, or a related field, plus six or more years of successful research, research administration, and/or managerial experience beyond the PhD degree. Familiarity with a broad spectrum of contemporary materials theory research and the academic materials theory research community and demonstrated administrative ability are essential. Applicants who are multifaceted and have multidisciplinary experience and capabilities are desired.

The salary range, which includes a locality pay adjustment, is currently from \$68,570 to \$106,868 per annum depending on qualifications and experience. Applicants must submit a resume stating current salary, and up to three letters of recommendation to the National Science Foundation, Attn: Sybil Smith, Division of Human Resource Management, Suite 315, 4201 Wilson Blvd., Arlington, VA 22230. When applying, refer to Vacancy Announcement No. EX 00-11.

This position becomes available annually. To be considered for the fall 2000 opening, applications should be submitted by **April 1, 2000**. For general information, call Ms. Smith at 703-306-1185, ext. 3090. For technical information, call Dr. F. Bruce Taggart, MT Program Director, at 703-306-1834. Hearing-impaired individuals should call TDD, 703-306-0189. Qualified individuals who are women, ethnic/racial minorities, and/or persons with disabilities are strongly encouraged to apply.

NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

**FACULTY POSITIONS
Department of Materials Science and Engineering
Kwangju Institute of Science and Technology
Korea**

The Department of Materials Science and Engineering at Kwangju Institute of Science and Technology (K-JIST) announces several faculty positions available at all ranks starting in March or September, 2000. The active research areas at the department include electronic, photonic, ferroelectric, magnetic, polymer nano composite, electronic packaging materials, and biomedical materials for tissue engineering. Duties include teaching graduate courses and developing strong research programs.

K-JIST is a government-funded and research-oriented graduate school located in Kwangju, 200 miles south from Seoul. Governmental research funds are available for the faculty members. Applicants with a PhD degree and an outstanding work experience should submit a resume including speciality, a list of publications and patents as well as a research plan to Faculty Search, Department of Materials Science and Engineering, Kwangju Institute of Science and Technology, 1 Oryong-dong, Buk-ku, Kwangju, 500-712, Korea; Phone: 82-62-970-2301, Fax: 82-62-970-2304; E-mail sjpark@kjist.ac.kr. Detailed information on the position at K-JIST can be found in the homepage at <http://www.kjist.ac.kr>. Applications will be accepted until the positions are filled. Foreign nationals are encouraged to apply.

**FACULTY POSITION
Biomaterials
The Johns Hopkins University**

The Department of Materials Science and Engineering at the Johns Hopkins University invites applications for a faculty position in biomaterials. Specific areas of interest include: materials for use in tissue engineering, biotechnology of materials, materials in therapies for human diseases, and materials processing, characterization, and engineering at the interface between devices and biological systems.

The successful candidate will be expected to develop an innovative research program and teach at both the undergraduate and graduate level. Applicants should have a PhD degree in materials science and engineering or related field and must have demonstrated ability to undertake interdisciplinary research. Postdoctoral experience is highly desirable. It is anticipated that the appointment will be at the assistant professor level although an appointment at the associate or full professor level will be considered.

Applicants should submit a detailed resume, a statement of research plans, teaching interests, and the names, addresses (including e-mail) and telephone numbers of three references to: Biomaterials Search Committee, Department of Materials Science and Engineering, 102 Maryland Hall, The Johns Hopkins University, Baltimore, MD 21218. To ensure full consideration, applications should be received by **March 1, 2000**.

Women and minorities are strongly encouraged to apply. Johns Hopkins University is an EEO/AA employer.

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