

Positions Available

LAWRENCE LIVERMORE
NATIONAL LABORATORY



CHIEF SCIENTIST

The Chemistry and Materials Science (C&MS) Directorate is a dynamic organization of multidisciplinary teams comprised of chemical and materials scientists and chemical engineers. These teams foster excellence and perform cutting-edge science and technology—supporting LLNL programs in national security, energy and environmental systems, and biosciences.

We are seeking an exceptional individual to inspire, lead, and build our research programs. As **Chief Scientist**, you will professionally represent the C&MS' scientific program, reporting directly to the Associate Director. You will ensure the scientific excellence of all technical activities, seek quality scientists and engineers to join a world-class team, and provide leadership and focus for a wide-range of challenging research activities.

If you have a well-established national reputation in chemical or materials science and excellent interpersonal and communication skills and background, send your cover letter and résumé to: Associate Director for C&MS, Dr. Harold C. Graboske, Jr., LLNL, P. O. Box 808, L-090, Dept. AJMV519CH Livermore, CA 94551.

LLNL offers a competitive salary and benefits package and growth opportunities (requires U.S. citizenship). LLNL is an equal opportunity employer, with a commitment to workforce diversity.

2-3 ▼ 7th Intl. Symposium on Metallized Plastics: Fundamental and Applied Aspects, Newark, NJ. R.H. Lacombe, Conf. Chairman, 3 Hammer Dr., Hopewell Junction, NY 12533; 914-227-7026; fax 212-656-1016; e-mail rhlacombe@compuserve.com; http://mstconf.com/metalpla.htm.

6-8 ▼ IEEE Intl. Electron Devices Meeting, Washington, DC. http://ieeep.org/conference/iedm.

6-8 ▼ Intl. Conf. on Computational Fluid Dynamics in Minerals and Process Industries, Melbourne, Australia. P. Schwarz, CSIRO Minerals, Box 312, Clayton South, Victoria 3169, Australia; 613-9545-8500; fax 613-9562-8919; e-mail cfd@minerals.csiro.au; http://www.minerals.csiro.au.

8 ▼ Greater Southwest Implant Users' Group, San Antonio, TX. J. Arps, 210-522-6588.

FEBRUARY 2000

7-9 2000 IEEE Intl. Solid-State Circuits Conf., San Francisco, CA. D. Suiters; 202-331-2000; e-mail isscc@courtesyassoc.com.

20-24 TMS Annual Meeting, Nashville, TN. Customer Service Dept., TMS, 420 Commonwealth Dr., Warrendale, PA 15086; 724-776-9000; fax 724-776-3770; e-mail csc@tms.org; http://www.tms.org.

MARCH 2000

5-10 Optical Fiber Communication Conf., Baltimore, MD. Optical Society of America, Conf. Services Dept., 2010 Massachusetts Ave., N.W., Washington, DC 20036-1023; 202-416-1980; fax 202-416-6100; e-mail confserv@osa.org; http://www.osa.org/mtg-conf.

6-8 Polymer Stabilizers and Modifiers Conf., Hilton Head Island, SC. Inst. of Materials Science, 75 S. Manheim Blvd., New Paltz, NY 12561; 914-255-0757; fax 914-255-0978; e-mail nainquiry@ims-np.org/narcStab.

20-24 APS 2000 March Meeting, Minneapolis, MN. Meetings Dept., American Physical Society, One Physics Ellipse, College Park, MD 20740-3844; 301-209-3286; http://www.aps.org.

APRIL 2000

2-7 2nd World Congress on Microwave Processing, Orlando, FL. D.E. Clark, Organizing Committee Chair, Dept. of Materials Science and Engineering, 136 MAE, Univ. of Florida, P.O. Box 116400, Gainesville, FL 32611-6400; 352-392-7660; fax 352-846-2033. Endorsed.

3-4 Microscopy of Composite Materials V, Oxford, UK. Royal Microscopical Society, 37/38 St. Clements, Oxford OX4 1AJ, UK; 44-1865-248768; fax 44-1865-791237; e-mail meetings@rms.org.uk; http://www.rms.org.uk.

11-13 Intl. Microscopy Conf., London, UK. Royal Microscopical Society, 37/38 St. Clements, Oxford OX4 1AJ, UK; 44-1865-248768; fax 44-1865-791237; e-mail meetings@rms.org.uk; http://www.rms.org.uk.

16-19 6th Intl. Multi-disciplinary Conf.: Complexity and Fractals in the Sciences, Singapore. http://www.kingston.ac.uk/fractal.

24-28 MRS Spring Meeting, San Francisco, CA. Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086-7573; 724-779-3003; fax 724-779-8313; http://www.mrs.org/. MRS.

MAY 2000

7-12 Conf. on Lasers and Electro-Optics, and Quantum Electronics and Laser Science Conf., San Francisco, CA. Optical Society of America, Conf. Services Dept., 2010 Massachusetts Ave., N.W., Washington, DC 20036-1023; 202-416-1980; fax 202-416-6100; e-mail confserv@osa.org; http://www.osa.org/mtg-conf.

15-20 6th World Biomaterials Congress, Kamuela (Big Island), HI. Society for Biomaterials, 13355 10th Ave. N., Ste. 108, Minneapolis, MN 55441; 612-927-8108; fax 612-927-8127; e-mail biomaterials.org; http://www.biomaterials.org.

22-27 26th Congress on Chemical Engineering, Environmental Protection, and Biotechnology, Frankfurt am Main, Germany. DECHEMA Deutsche Gesellschaft für Chemisches Apparatewesen, Chemische Technik und Biotechnologie e.V., Th. Scheuring, Germany; 49-69-7564-230; fax 49-69-7564-298; http://www.dechema.de.

28-2 10th Intl. Offshore and Polar Engineering Conf., Seattle, WA. Intl. Society of Offshore and Polar Engineers, P.O. Box 1107, Golden, CO 80402-1107; 303-420-8114; fax 303-420-3760.

JULY 2000

17-21 5th Intl. Conf. on Diffusion in Materials, Paris, France. DIMAT 2000, DECM/SRMP, Bat. 520, CEA/SACLAY, 91191 Gif-sur-Yvette Cedex, France; e-mail dimat2000@cea.fr; www.dimat2000.cea.fr.

30-4 SPIE Annual Meeting, San Diego, CA. SPIE, P.O. Box 10, Bellingham, WA 98227-0010; 360-676-3290; fax 360-647-1445; e-mail spie@spie.org; http://www.spie.org.

SEPTEMBER 2000

3-8 Congress of Histochemistry and Cytochemistry, York, UK. Royal Microscopical Society, 37/38 St. Clements, Oxford OX4 1AJ, UK; 44-1865-248768; fax 44-1865-791237; e-mail meetings@rms.org.uk; http://www.rms.org.uk.

10-15 Conf. on Lasers and Electro-Optics/Europe, and Intl. Quantum Electronics Conf., Nice, France. Optical Society of America, Conf. Services Dept., 2010 Massachusetts Ave., N.W., Washington, DC 20036-1023; 202-416-1980; fax 202-416-6100; e-mail confserv@osa.org; http://www.osa.org/mtg-conf.

17-22 13th Intl. Conf. on Ion Implantation Technology, Tyrol, Austria. IIT 2000, c/o IIS-B, Schottkystrasse 10, 91058 Erlangen, Germany; 49-9131-761-100; fax 49-9131-761-102; e-mail iit2000@iis-b.fhg.de; http://www.mfa.kfki.hu/IIT2000.

OCTOBER 2000

2-6 AVS 47th Intl. Symposium, Boston, MA. American Vacuum Society, 120 Wall St., 32nd Floor, New York, NY 10005-3993; 212-248-0200; fax 212-248-0245; e-mail avsnyc@vacuum.org; http://www.vacuum.org.

20-28 OSA Annual Meeting, Providence, RI. Optical Society of America, Conf. Services Dept., 2010 Massachusetts Ave., N.W., Washington, DC 20036-1023; 202-416-1980; fax 202-416-6100; e-mail confserv@osa.org; http://www.osa.org/mtg-conf.

NOVEMBER 2000

13-14 ASTM Symposium on Marine Corrosion in Tropical Environments, Merida, Yucatan, Mexico. V. Chaker, Port Authority of NY-NJ, One World Trade Ctr., 74W, New York, NY 10048; 212-435-5790; fax 215-435-8040.

27-1 MRS Fall Meeting, Boston, MA. Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086-7573; 724-779-3003; fax 724-779-8313; http://www.mrs.org/. MRS. □

Positions Available

**RESEARCH STAFF POSITION
Princeton Materials Institute
Princeton University**

The Princeton Materials Institute invites applications for a Professional Research Staff Position in the thermomechanical performance of materials and systems. Requirements include a PhD degree with four to seven years of experience in the measurement and analysis of the mechanical properties, microstructure and performance of advanced materials, such as composites, films, and multilayers. Some experience in industry is preferred.

The position will initially involve the setting up of a thermomechanical measurements laboratory (that includes advanced instruments, such as atomic force and scanning electron microscopes, with *in situ* loading devices, and strain mapping methodologies). The person will be responsible for developing an independent research program in the area of thermostructural materials and systems, working in conjunction with the PMI Director.

Applicants should send resumes to Princeton Materials Institute, Bowen Hall, 70 Prospect Ave, Princeton, NJ 08540, Attn: Research Staff Search Committee.

Princeton University is an affirmative action, equal opportunity employer. Women and minority candidates are encouraged to apply.

FACULTY POSITIONS

**Department of Materials Science and Engineering
University of Illinois at Urbana-Champaign**

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign invites applications for regular, full time tenure-track or tenured faculty positions in the broad areas of materials research. Applicants with strong research and teaching capabilities in the areas of diffraction and/or imaging techniques utilizing x-rays, electrons or neutrons; ceramic engineering; metallurgy; or polymers will be given preference although applicants with research interests in other areas may be considered. To be considered for a tenured position, the applicant must have recognized national and international stature. Successful candidates will be expected to teach materials science and engineering courses at both the undergraduate and graduate levels. Candidates will also be expected to develop an outstanding research program.

Applicants must hold an earned Doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is August 21, 1999 or later. All applicants are asked to provide a professional curriculum vitae including teaching experience and interests, a list of publications, and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three (3) letters of reference be sent directly to the department. Candidates for tenured positions should include the names, addresses, e-mail, and telephone numbers of at least three (3) references. To ensure full consideration, applications must be received prior to **May 31, 1999**. Interviews may take place during the application period, but a final decision will not be made until after the deadline for applications.

Applications should be addressed to:

Chair, Faculty Search Committee
Department of Materials Science and Engineering
1304 W. Green Street, Urbana, IL 61801
Tel: 217-333-1440; Fax: 217-333-2736; E-mail: mse@uiuc.edu

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平成12年度基礎科学特別研究員の公募について

理化学研究所は、我が国の基礎研究を強力に推進するため、平成12年度の基礎科学特別研究員を募集します。斬新な研究課題を自主的に遂行できる若い研究者の応募を期待します。

採用予定人員/70名程度

受入機関/理化学研究所

募集分野/物理学、化学、生物科学、医科学、工学の各分野で、理化学研究所で実施可能な研究。

応募資格/平成12年4月1日現在35歳未満で、博士号取得者又はこれと同等の能力を有すると認められる者。
※日本国に永住権を有さない外国人にあっては、上記に加え、次の条件を満たす者。

①応募日現在に日本国に在住している者。

②日本国の大学院博士課程を終了(見込を含む)し、博士号を取得(見込を含む)の者。

待遇等/①謝金 月額51万円程度(社会保険、税込)

②通勤費 実費(上限4万5千円/月)

③住宅費 家賃の一部支給

④研究費(138万円/年程度)

擔任時期/平成12(2000)年4月1日

契約期間/連続して最長3年間を限度とし、毎年度所要の評価により契約更新

募集要項領布/領布開始は4月上旬予定

募集要項の請求は、下記FAXへ①郵便番号 ②住所 ③氏名(漢字)

④氏名(カタカナ)を記入し、送信すること。 ※要項代は無料。

応募願書の/平成11年5月31日(月)必着

提出締切


願書提出先/理化学研究所 研究業務部

若手研究員制度推進室 基礎科学特別研究員担当

〒351-0198 埼玉県和光市広沢2番1号

TEL. 048-467-9268(直通) FAX. 048-463-3687

理化学研究所



**Founding Chairperson -
Picker Engineering Program**

Smith College is looking for an outstanding, creative engineering educator for the position of founding chairperson of the recently announced Picker Engineering Program. This is the first engineering program at a women's college and one of the very few at any liberal arts college. Candidates should possess administrative experience, an established research reputation, and a strong interest in teaching engineering in a liberal arts environment. They must have the vision and enthusiasm for the unique task of building the foundations of a new, high-quality engineering program. While the initial areas of concentration will likely include computer engineering, electrical engineering, materials science, environmental engineering, and systems engineering, candidates from all engineering disciplines will be considered.

The appointment will be at the rank of professor with tenure. The founding chairperson will work together with the Engineering Advisory Committee to determine the fields in which Smith will offer engineering courses, and will be in a position to hire a number of tenure-track engineering professors in the immediate future. The goal of the program is to graduate about 25 students per year.

Located in Western Massachusetts, Smith College is the largest women's college in the nation and a leader in the education of women scientists. Smith is a member of the Five-College Consortium, which also includes Amherst College, Hampshire College, Mount Holyoke College and the University of Massachusetts at Amherst. The University has a highly ranked college of engineering, with which Smith will be collaborating. Smith also offers a 3-2 engineering program with Dartmouth College.

Review of applications will commence immediately and will continue until the post is filled. The candidates are asked to send their c.v. and a list of references to: Professor Malgorzata Z. Pfabe, Director, Engineering Advisory Committee, Department of Physics, Smith College, Northampton, MA 01063. Smith College is an equal opportunity employer encouraging excellence through diversity.

Smith College

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Positions Available

**FACULTY POSITION
Department of Metallurgy and Materials Engineering
University of Connecticut**

The Department of Metallurgy and Materials Engineering is seeking a tenure-track, faculty member at the level of Assistant Professor to begin on or about January 1, 2000. A higher level appointment is possible for a truly exceptional person. Requirements are a PhD degree or equivalent in a materials-related field, a strong interest in both undergraduate and graduate teaching, and motivation to develop a prominent research program. Current research programs in the Department include high temperature coatings, ceramic composites, materials simulation, solidification processing, alloy design, heat treatment, corrosion, mechanical behavior, and solid freeform fabrication. The Department is looking for a highly knowledgeable and energetic individual who can quickly establish a first class research program that will complement existing programs.

An application, including curriculum vitae, list of references, and supporting materials, should be sent to the MMAT Search Committee, University of Connecticut, 97 N. Eagleville Road, Storrs, CT 06269-3136 or e-mailed to metdept@mail.ims.uconn.edu.

Screening of applications will begin on **August 1, 1999** and will continue until the position is filled. For further information about the Department, visit our Web site at <http://www.ims.uconn.edu/metal/>.

The University of Connecticut is an Affirmative Action/Equal Opportunity Employer. We encourage applications from under-represented groups, including minorities, women and people with disabilities.

**FACULTY POSITION
Princeton Materials Institute
Princeton University**

The Princeton Materials Institute at Princeton University invites applications for a quarter-time visiting faculty position in advanced imaging, with a specialty in high resolution transmission electron microscopy, for 1999-2000, with possible renewal. A PhD degree, postdoctoral experience, a strong record of research accomplishment, and leadership skills required. The successful applicant will supervise the operation of the imaging facility, help develop and implement our new interdisciplinary graduate program in Materials, including teaching courses and supervising graduate students, and is expected to collaborate in joint research with the Materials faculty. Salary will be commensurate with experience.

Send a curriculum vitae, list of publications, reprints of significant publications, a short description of research interests, and the names of three references, by **June 11, 1999** to: Dr. Robert Cava, Associate Director, Princeton Materials Institute, Bowen Hall, 70 Prospect Avenue, Princeton University, Princeton, NJ 08540.

Princeton University is an Affirmative Action/Equal Opportunity Employer.

**TO PLACE YOUR AD CONTACT
MARY E. KAUFOLD TODAY!**

724-779-8312; kaufold@mrs.org

Online Materials Research Society Membership Application:
<http://www.mrs.org/membership/>

POSTERMINARIES

Writing Wrongs

"Are an an and an a afore an acronym apropos?" asked an articulate author. "Aye, absolutely!" answered an august article authority.

Anon.

Truly well written research publications do make it into print. When you consider all the steps in the publication process and the impediments each may raise, one must marvel at the result. The many actors in the publication play—authors, editors, reviewers, publishers, and readers—do not all read from the same script. Getting the show on the road can therefore be daunting to say the least. Even what seem minor chores and peculiarities of the process can often become show stoppers. Undoubtedly, most readers of *MRS Bulletin* are authors too. You

therefore have probably noticed that authoring and publishing can often be as painful as it is rewarding. Below we'll preach a little on the pain.

The Composition Conundrum

It cannot be repeated often enough that at the heart of a good article is an interesting, even fascinating, topic presented in a clear, compelling, and concise exposition. Whether the content is organized historically (with the beginning at the beginning) or axiomatically (with the end at the beginning), the context, criteria, and conclusions must be easily accessible to the intended audience. No matter how important the topic, it will not survive a badly botched composition.

Obvious, right? Unfortunately the one most expert on the topic, the one who has

sweated through the experiments and calculations, the one whose ridden the highs of discovery and lows of bad data, is more often than not the one least prepared to compose the report. Being too close to the details leads us to give the readers more credit than they deserve. They will not automatically appreciate unstated underlying assumptions, be familiar with sub-specialty jargon, or find the relevance of each made point trivially obvious. After manuscripts have bounced back a few times from editors and reviewers (who are readers too), one is inclined to take a more pedagogically transparent approach. Having a long-in-the-tooth co-author also helps a lot. Once this is mastered, one can confidently submit with great pride and high hopes to a prestigious outlet, knowing full well that subsequent reviewer cri-