Course X News for November, 1999

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Special Job-o-Mania Edition!

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Faculty Distinctions

Professor Emeritus Marcus Karel Awarded Honorary Doctorate
Sincere congratulations and best wishes to **Professor Emeritus Marcus Karel**, who was awarded an Honorary Doctorate on September 21st, by the University of Helsinki in Helsinki, Finland. The citation for the award, includes much work that Professor Karel carried out here at MIT - "studies of chemistry reactions causing undesirable changes in foods; modeling simulation and optimization of quality factors in food processing and storage; physical structure of foods, physical properties and their control in processing and storage; enzyme reactions in various substrates."

Kudos to Professor Karel on this prominent achievement!

**MIT ChemE Welcomes Wittrup to Faculty**

An important addition to our faculty this year is **Professor K. Dane Wittrup**. Dane joined us this fall from the University of Illinois at Urbana-Champaign, where he was the J.W. Westwater Professor of Chemical Engineering.

Professor Wittrup is an internationally-recognized expert in molecular bioengineering, which is the production and directed manipulation of biological molecules by incorporating methodologies from genetics, biochemistry, and cell biology in combination with quantitative, physical, and systems-oriented engineering perspectives. Dane is particularly recognized for his uniquely strong integration of quantitative engineering and molecular genetic approaches in research on biomolecular recognition and on pharmaceutical protein secretion in yeast. His work is already having practical impact in the biotechnology industry in both discovery and production of molecular therapeutics, a combination that is highly unusual in a single laboratory. His research accomplishments were recognized last year by the Allan P. Colburn Award of the AIChE. He won several teaching awards while at the University of Illinois. We are excited to have him teaching in the department!

Please welcome Professor Wittrup to the Faculty, and to the Course X community!

Here's Professor Wittrup's contact information:

Office: 66-552  
Phone: (617) 253-4578  
EMail: wittrup@mit.edu

Thanks to **JoAnn Sorrento** for her help with this!

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Department News

First Frontiers in Biotechnology Lecture Presented by Professor Daniel Wang

The department's main lecture hall, 66-110, was packed to the rafters with faculty, students, staff and visitors at 3:00 PM last Wednesday October 22nd, for the inaugural lecture in ChemE's newest annual lecture series, *Frontiers in Biotechnology*, which was delivered by Institute Professor Daniel I.C. Wang.

Professor Wang, considered a mentor to alumni/ae who have gone on to play a pioneering role in the biotech and bioengineering fields, was the featured speaker for this much-anticipated new lecture series.

Introducing him were Department Head, Professor Robert Armstrong and lecture sponsor and the first graduate of BPEC, Dr. Noubar Afeyan (Ph.D. '87). Dr. Afeyan praised Professor Wang for his great generosity, insightfulness and support. While studying with him at MIT, Dr. Afeyan developed a new chromatography process which could purify proteins for drug research at rates 10 to 1,000 times faster than the existing technology. Shortly after graduating from MIT, Dr. Afeyan used his knowledge of chromatography to found PerSeptive Biosystems, Inc. (then known as Synosys), which became a leader in the development, manufacture, and marketing of innovative tools for biomedical research and new drug development. Recently, Perkin-Elmer purchased PerSeptive to exploit the complementary aspects of the two companies.

Professor Wang's lecture presentation provided a broad, lucid perspective on the past, present and future of biotechnology; a field which he and his students have been instrumental in defining and developing.

Lecture highlights included a revisitation of biotech development such as early achievements in membrane processes (1965-75), enzyme technology and the beginning of multi-disciplinary research (1972-77), microcarrier for animal cell technology (1975-85), the beginning of computer control and on-line monitoring of bioreactor (1975-80) student contributions to monitoring and biosensors (1980-95) and most recently, the establishment and ongoing work of MIT's Biotechnology Process Engineering Center (BPEC) (1985-1998). Professor Wang cited numerous contributions of BPEC students, in the areas of animal cell biotechnology, protein quality and downstream processing.

In setting the stage for the future, Professor Wang itemized a slate of unmet challenges and drew correlations between principles of Chemical Engineering and these specific areas of exploration.

Professor Wang then shared a number of conclusions about the future of biotechnology. These conclusions stressed the importance ChemE principles as tools for developing biotechnology solutions, the need for strong partnerships with industry, and his favorable forecast for the future availability of opportunities for Chemical Engineers in the biotechnology field.
Professor Wang's tenure in MIT's Chemical Engineering department began with his appointment as an Assistant Professor in 1965. He has made pioneering contributions to the field and to MIT over the course of his career. One of his most prominent achievements and contributions was the establishment of MIT's Biotechnology Process Engineering Center (BPEC) in 1985. Since completing B.S. (1959) and M.S. (1961) degrees at MIT, and his Ph.D. at Penn State (1963), Professor Wang has developed a highly-distinguished career, having been elected to the American Academy of Arts and Sciences the National Academy of Engineering, the American Institute of Medical and Biological Engineering, Academia Sinica (Republic of China) and the International Institute of Biotechnology.

*Frontiers of Biotechnology* promises to provide unique and exciting learning opportunities for Chemical Engineers seeking to broaden their understanding in this area of growing importance for years to come!

The Department's warmest thanks go to Dr. Noubar Afeyan for making this possible, and to Professor Daniel Wang for a dynamic and insightful launching of this new lecture series!


**New Newsletter is Good News For BEH!**

Best wishes to JoAnn Sorrento, who recently issued the second edition of the new Division of Bioengineering and Environmental Health newsletter!

The BEH Newsletter appears to be information-rich and has a spiffy, readable format, highlighting all the latest stories on new people, events, and other important developments within the Division.

Anyone interested in reading the new BEH Newsletter, or submitting items for consideration should contact:

JoAnn Sorrento, Editor Phone: 253-7420 EMail: sorrento@mit.edu

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**November**

- **8th** Faculty Meeting 4:15 PM to 6:00 PM
- **22nd** Faculty Meeting 4:15 PM to 6:00 PM

**December**

- **3rd** Hoyt C. Hottel Lecture 3:00 PM
- **6th** Faculty Meeting 4:15 PM to 6:00 PM

For questions about these and other Chemical Engineering Department Events, please contact:

Arline Benford  
Phone: 258-7031  
EMail: arline@mit.edu

For questions about faculty, staff and/or student meetings please contact:

Emmi Snyder  
Phone: 253-4533  
EMail: emmi@mit.edu

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**MIT Materials Events**

**The Materials Unlimited Seminar Series**
The Materials Processing Center presents the Materials Unlimited Seminar Series. For information, please contact:

Jenise Aminoff  
Phone: 253-6472  EMail: jenise@mit.edu

MIT Library News

Three New Online Services Now Available!

1. MIT Libraries has a proxy server to access library resources in remote locations. Please check the following URL for details: http://libraries.mit.edu/faq/remote.html


For further information please contact the Chemistry Librarian, Erja Kajosalo at:

Office: 14S-134  
Phone: 253-9795  
EMail: kajosalo@mit.edu

Pre-Doctoral Opportunities

Scientist  
Polaroid Corporation  
Waltham, Massachusetts
Qualifications: The ideal person would have a B.S. in chemistry, chemical engineering, solid-state physics or any related field with a strong background in chemistry. M.S. degree and/or up to 5 years practical experience in physical, inorganic, or organic chemistry, specifically in reaction kinetics, statistical experimental design, adsorption of chemicals on substrates or surface reactions are a plus.

Responsibilities: Develop hands-on expertise of chemical and spectral sensitization of silver halide grains and emulsions emulsion characterization and apply silver halide emulsion experience to photographic systems. The position involves developing technology for product use, with a high level of interaction with product development teams. The work would involve the application of chemistry and physics to photographic science.

Application Procedure: Interested individuals should contact:

Dr. Barry Corden
Polaroid Corporation
1265 Main Street
Waltham, MA 02154
Phone: (781) 386-1389
Fax: (781) 386-6419
EMail: cordenb@polaroid.com

For more information about opportunities at Polaroid, visit http://www.polaroid.com/polinfo/employment/index.html

Technical Engineering Support
Genzyme Corporation
Boston, Massachusetts

Qualifications: BS, MS or Ph.D. in Biochemical or Chemical Engineering with 8+, 5+ or 3+ years of experience, respectively, preferably in microbial fermentation and/or protein purification. Experience in process modeling, plant start-up, and Statistical Process Control is required. Knowledge of cGMP and biopharmaceutical regulatory requirements. Ability to guide a small multi-disciplinary team to implement project plans. Responsibilities: Provide technical engineering support to Manufacturing and R&D to create scalable & cost-effective processes for existing and new products. Technical expertise in microbial fermentation, bioseparations and/or chromatography.

Application Procedure: Please contact

Dr. Janet M. Griffiths
Genzyme Corporation
Phone: (617) 562-4547
EMail: jgriffiths@genzyme.com
For more about Genzyme Corporation, visit http://www.genzyme.com

Assistant Scientist (Virology)
Pfizer Inc.
On the beautiful Connecticut Seashore

Qualifications: B.S. plus special project experience is required; M.S. with 1-2 years experience desired. Experience with animal health vaccines, and knowledge of mammalian cell culture, medium optimization, ELISA, FA, potency assays, viral scale-up and viral purification are required. Also needed are a working knowledge of sterile technique, assay development and cell maintenance, and the ability to design and carry out experiments with supervision. Must be able to handle multiple projects simultaneously, working accurately with attention to detail, while meeting deadlines. Excellent written and oral communications skills and ability to work with a team also needed.

Application Procedure: For an online resume and application, please visit http://www.pfizer.com/pfizerinc/career/.

Otherwise, contact them at the address below:

Pfizer, Inc.
Central Research
Ad Code: 9924220MIT
c/o Aon Consulting
P.O. Box 25
Findlay, OH 45839
EMail: Pfizer@aon-hros.com

For more about Pfizer, visit http://www.pfizer.com

Research Associate
Leading Biotech Firm
New York State

Qualifications: Strong molecular biology skills. The candidate should possess a B.S., M.S. or M.D. degree. Good communication and organizational skills are a plus. Responsibilities: You will be working in a lab that is discovering and developing novel mechanism-based drugs for the treatment of dysfunctions associated with memory and learning. You will perform Cloning, Plasmid and Phage Preparation, PCR, Library Screening, Southern and Northern Blot Analysis Western Blotting, Tissue Culture, Transient and Stable Transfections.
Industrial Opportunities

Ph.D. Scientist
Leading Biotech Firm
Westchester, New York

Qualifications: Ph.D. Required. The qualified scientist should have a very strong background in molecular biology with experience in E. coli genetics/physiology, protein purification and a strong interest in structural biology.

Responsibilities: You will work in a lab that is responsible for the expression, purification and characterization of proteins for research and clinical interest. This position will involve research that focuses on identification and characterization of ligand or receptor-binding domains on proteins of interest. This is a high-impact, high-profile position with excellent opportunity for advancement.

Application Procedure: Please contact:

Billy Gathers
Diedre Moire Corporation
Phone: (609) 584-8733x235
Fax: (609) 584-9575
EMail: 915613@candseek.com

Multiple Positions
Data Storage Products
Imation Corporation
Oakdale, Minnesota

Coating Engineer (#65390JB)
Qualifications: BS-Ph.D. ChemE; Chemistry. Coating/drying modelling experience desirable.

Responsibilities: Responsible for the development of thin film multi-layer coating technology. Work with organic and inorganic dispersions and coating processes to develop a fundamental understanding of the interactions between the materials and coating/drying technologies.

See below for application deadline/procedure.

Coating/Drying Engineer (#65656JB)

Qualifications: Experienced BS/MS, Ph.D. in ChemE or ME. Coating/drying experience desirable.

Responsibilities: Responsible for the development of thin film multi-layer drying technology. Work with dispersions and coating processes to develop a fundamental understanding of the interactions between materials, coating processes, and subsequent drying technologies.

See below for application deadline/procedure.

Product Development Engineer (#65696JB)

Qualifications: BS-Ph.D. ChemE; Chem, Materials Science.

Responsibilities: Responsible for developing a strong understanding of pigment-binder solvent interactions; lubricant, crosslinking, additives effects for magnetic media dispersions. Work includes expt'l design, dispersion dev, coating, scale-up to pilot plant.

See below for application deadline/procedure.

Product Development Engineer (#65713JB)

Qualifications: BS-Ph.D. ChemE with experience.

Responsibilities: Responsible for the development of thin multi-layer substrates. Work includes formulation and preparation of dispersions; coating and drying technologies. Hands-on modelling experience with a good understanding of rheology desirable.

See below for application deadline/procedure.

Electro-Plating Development Engineer (#65629KK)
Qualifications: MS/Ph.D.: Matl's Science, Chem, ChemE, ME Chemistry/Materials Science. Experience or knowledge of surface analytical methods (AFM, SEM); polishing & tribology of substrates for computer hard disks desired.

Responsibilities: Responsible for R&D of electroplated components for optical data storage products & processes. Understanding of metal deposition by electroplating/sputtering required.

See below for application deadline/procedure.

Photopolymer Chemist (#65628KK)

Qualifications: MS-Ph.D. Chemistry, Materials Science, ChemE, ME. Knowledge/experience with photo-sensitive polymers and glass or plastic coating processes. Experience with surface modification surface energy measurement, adhesion promotion or release agents data analysis.

Responsibilities: Responsible for the research, material characterization development, scale-up of photopolymer chemistries and processes for replication of sub-micron features on optical data storage disks. Evaluate coated films using AFM and surface metrology.

See below for application deadline/procedure.

Tribologist (Media Friction/Wear) (#KK)

Qualifications: MS or Ph.D. in Materials Science, ChemE, Physics, ME Chemistry and relevant tribology experience.

Responsibilities: Responsible for developing a technical understanding of the relationship between material properties and the durability performance of tape media. Technical issues include: friction, wear, slit edge effects, debris generation, and tape failure. Provide insights to polymer, lubricant, and overall formulation directions.

Application procedure for all of the above positions:

Please contact:

Human Resources Department
Imation Corporation
Data Storage Products
1 Imation Place
Oakdale, MN 55128
Phone: (888) 466-3456
Academic Opportunities

Assistant Professors (2)
Department of Chemical Engineering
Kansas State University
Manhattan, Kansas

Qualifications: The candidate must value scholastic excellence and have an unwavering commitment to undergraduate and graduate education. An earned doctorate in chemical engineering or a closely-related field is required. U.S. citizens and permanent residents will receive preference.

Preferred Research/Teaching Foci: Preferred areas of research specialization include thermodynamics, separations, value-added agricultural biotechnology, or materials processing; teaching expertise in these areas and/or process control and process design is desired.

Application Deadline: Applications will be reviewed as received until the positions are filled, but those received before November 29, 1999 will receive full consideration. Appointments may commence as early as January 1, 2000.

Application Procedure: Candidates should send their resume, a list of four professional references, and a statement of teaching and research interests to:

Prof. John R. Schlup, Chair
Search Committee
Department of Chemical Engineering
Kansas State University
Room 105, Durland Hall
Manhattan, KS 66506-5102
Phone: (785) 532-4319
Fax: (785) 532-7372
EMail: jrsch@ksu.edu

For more information about ChemE at Kansas State, visit http://www.engg.ksu.edu/CHEDEPT/home.
Assistant Professor
Department of Chemical Engineering
Cleveland State University
Cleveland, Ohio

Qualifications: The minimum qualifications are a Ph.D. in Engineering or the Sciences, a Bachelor's degree in Chemical Engineering or related field, and the ability to teach undergraduate courses in Chemical Engineering. The preferred qualifications are excellent communication skills, the ability to develop an externally sponsored research program which complements existing research strengths within the department, and the ability to supervise graduate students. Industrial experience and willingness to work with local and national industry is desirable.

Responsibilities: Teaching at the undergraduate and graduate levels, supervision of graduate research, obtaining external funding, and publishing research results.

Application Deadline: December 31, 1999 or until filled.

Application Procedure: Please send a letter of application, statement of teaching and research interests, and current resume, including names, addresses, phone numbers, and EMail addresses of at least three references to:

Dr. D.B. Shah, Chair
Chemical Engineering Faculty Search Committee
Fenn College of Engineering
Cleveland State University
1960 E. 24 Street, SH 104
Cleveland, OH 44115-2425
Phone: (216) 687-3569
EMail: shah@csvax.scuohio.edu

For more about ChemE at Cleveland State, visit http://www.csuohio.edu/chemical_engineering/

Tenure-Track Faculty (1+)
Chemical Engineering Department
Northwestern University
Evanston, Illinois

Qualifications: Candidates should have a vigorous, well-funded and internationally-recognized research program with a demonstrated commitment to teaching at the undergraduate and graduate levels.
Preferred Research/Teaching Foci: We are open to any research area with a special interest in computational or theoretical aspects and a preference for relevance to biology, materials, environmental issues, or systems.

Application Deadline: We will begin to accept applications immediately and the search will continue until the position(s) is/are filled.

Application Procedure: Candidates should send their CV, a description of research plans and teaching interests, and the names of three references to:

Prof. William M. Miller, Chair
Search Committee
Chemical Engineering Department
Northwestern University
2145 Sheridan Road
Evanston, IL 60208-3120
Phone: (847) 491-4828
Fax: (847) 491-3728
EMail: wmmiller@nwu.edu

For more about ChemE at Northwestern, visit http://www.chem-eng.nwu.edu/

Assistant Professor
The Howard P. Isermann Department of Chemical Engineering
Rensselaer Polytechnic Institute
Troy, New York

Qualifications: We are looking for outstanding individuals who have carried out first-rate research and who will develop internationally-renowned research programs. In addition, we are seeking a strong commitment to teaching excellence at both the undergraduate and graduate levels.

Preferred Research/Teaching Foci: The Department conducts dynamic research programs in the areas of biochemical engineering, separations and bioseparations, polymer and materials processing, interfacial phenomena, nanoparticle and porous systems, combustion, heat transfer, microelectronics processing, and process control.

Application Deadline: Appointment will begin September 2000 - application deadline not specified.

Application Procedure: Qualified individuals should send a copy of their CV, a statement of research and teaching interests, and the names of three references, as soon as possible to:
Division Director
Program Directors (2)
Chemical and Transport Division (CTS)
Engineering Directorate
National Science Foundation
Arlington, Virginia

1. CTS Division Director

Qualifications: Established record of significant achievement and increasing responsibility in academia, industry or government. Must be experienced and competent in technical, financial and administrative management. Must work well with people, use effective public speaking styles, and act as mentors to continuously develop the diversity of talents and skills of their colleagues at all levels.

Responsibilities: Lead a team of Program Directors to shape a broad vision for a portfolio of engineering research and education investments; to position and advocate program activities within the context of NSF's strategic plan; and manage resources effectively to nurture emerging opportunities as well as ongoing efforts. Work proactively across NSF and in partnership with other Federal and State agencies, industry, private foundations and the academic community. The Division Director's responsibilities are challenging, but the opportunity to effect constructive change is great. IPA assignees from academe retain their university salary and benefits, with cost sharing negotiated between the Foundation and the home institution.

See below for application procedure.

2. NSF Program Director: Fluid Dynamics & Hydraulics
NSF Program Director: Chemical Kinetics & Catalysis

Qualifications: A Ph.D. or equivalent professional experience; a successful research and
education career in academia, industry or government; and substantial management expertise are essential. Individuals will be considered for Assistant and/or Associate Program Director positions as well as Program Director:

- **Associate Program Director:** Requires a Ph.D. plus four years of related experience.

- **Assistant Program Director:** Requires a Ph.D. or Master's degree plus two years of research or related experience.

Responsibilities: Provide stewardship of integrated research and education in a discipline and across disciplines within the context of agency vision, mission and goals, and within the framework of guiding legislation and agency policies and resources.

Application Procedure: Inquiries, applications and nominations can be directed to any current CTS Program Director, or to either of the Directors listed below:

Gary Poehlein, Director  
CTS Division, Room 525  
EMail: gpoehlei@nsf.gov

or

Mike Roco, Program Director & Chair  
CTS Search Committee, Room 525  
EMail: mroco@nsf.gov

Complete address for both of the above contacts:

Engineering Directorate  
National Science Foundation  
4201 Wilson Boulevard  
Arlington, VA 22230  
Phone: (703) 306-1371  
Fax: (703) 306-0319

For more about these and other opportunities at CTS/NSF, visit [http://www.eng.nsf.gov/JobOpportunities/](http://www.eng.nsf.gov/JobOpportunities/)

**Faculty (Multiple Positions)**  
Department of Chemical Engineering  
University of Houston
Houston, Texas

Qualifications: Seeking faculty candidates (at any rank) who have exceptional promise or a proven record for establishing innovative research and teaching programs.

Preferred Research/Teaching Foci: Research field is open, but we are especially interested in candidates with expertise in Materials and Bioengineering.

Application Procedure: Please send CV, detailed description of research and teaching interests, and the names and EMail addresses of at least three references to:

Prof. Demetre J. Economou, Chair
Faculty Search Committee
Department of Chemical Engineering
University of Houston
Houston, TX 77204-4792
Phone: (713) 743-4320
Fax: (713) 743-4323
EMail: Economou@uh.edu

For more about ChemE at the University of Houston, visit http://www.chee.uh.edu/

Assistant Professor
Department of Chemical Engineering
University of California, Santa Barbara
Santa Barbara, California

Qualifications: Seeking candidates with truly outstanding qualifications.

Preferred Research/Teaching Foci: We are particularly interested in candidates who are working in one or more areas of applied catalysis, environmental engineering, applied electrochemistry or bioengineering.

Application Procedure: Please send a CV, research and teaching plans, and the names of up to four references to:

Prof. Glenn H. Fredrickson, Chairman
Department of Chemical Engineering
University of California, Santa Barbara
Santa Barbara, CA
Phone: (805) 893-8308
Fax: (805) 893-4731
Faculty (2)
Department of Chemical Engineering
University of Colorado
Boulder, Colorado

Qualifications: One opening is targeted at the junior level, and the other is targeted at the mid-career or senior level. The senior position includes the potential for appointment as Department Chair.

Preferred Research/Teaching Foci: The research areas of both positions are open.

Application Deadline: Applications accepted until position filled; reviews begin (began) October 1999.

Application Procedure: Applicants should send vita, research, and teaching statements, and names/addresses of three references to:

Professor Robert H. Davis
Department of Chemical Engineering
Campus Box 424
University of Colorado
Boulder, CO 80309-0424
Phone: (303) 492-7471
Fax: (303) 492-4341
EMail: robert.davis@colorado.edu

For more about ChemE at UColorado, visit http://spot.colorado.edu/~chemeng/Home.html

Assistant/Associate Professors (2)
Department of Chemical Engineering
Ohio State University
Columbus, Ohio

Qualifications: Candidates should have a Ph.D. degree in Chemical Engineering or allied field and a demonstrated outstanding research record with a strong commitment to teaching excellence.

Preferred Research/Teaching Foci: All research areas will be considered, with special interest in particle technology, polymers, and biomaterials.
Application Deadline: Review of applications will begin on November 1, 1999, and will continue until the positions are filled.

Application Procedure: Applicants should submit a detailed CV, names and addresses of three references, and a statement of teaching and research interests to:

Professor L. James Lee  
Chair of the Search Committee  
Department of Chemical Engineering  
The Ohio State University  
140 West 19th Avenue  
Columbus, OH 43210-1180  
Phone: (614) 292-2408  
Fax: (614) 292-9271  
EMail: lee.31@osu.edu

For more about ChemE at Ohio State, visit http://www.er6.eng.ohio-state.edu/che/

**Assistant/Associate Professor (Research Specialty Open)**  
Tenure-Track Faculty(Semiconductor Materials Processing)  
Department of Chemical, Bio and Materials Engineering  
Arizona State University  
Tempe, Arizona

Qualifications: Candidates for these 2 positions must have an earned doctorate in Chemical Engineering or a closely-related area of engineering or science by the appointment date. Applicants for the Assistant rank must show exceptional promise and applicants for the Associate/Professor rank must demonstrate established excellence in research appropriate to rank. A rank appropriate record of publication in scholarly journals and/or industrial experience pertinent to semiconductor and electronic materials processing, biotechnology, or process design and operations is desired.

Responsibilities: Successful candidates will be expected to develop and maintain internationally recognized externally-funded research programs at ASU, to maintain our high teaching standards at the undergraduate and graduate levels, and to participate in service activities. ASU is a Research I University with outstanding research facilities and infrastructure support located within the rapidly growing metropolitan Phoenix area.

Application Deadline: Interested candidates must submit a letter indicating area and rank desired, a CV, a research plan, a teaching plan, and a list of four references, including telephone, mail and EMail addresses to:

Dr. Stephen P. Beaudoin, Chair
Assistant Professors (2)
Chemical Engineering Department
University of Connecticut
Storrs, Connecticut

Qualifications: Qualifications include a Ph.D. in chemical engineering or closely-related area, the promise of establishing a highly respected research program, and a commitment to excellence in teaching at all levels of the curriculum. Exceptional candidates at more senior levels with outstanding research records will also be considered. Preferred Research/Teaching Focus: Preference will be given to applicants with a biological research focus. Application Deadline: The review process will begin January 10, 2000, though applications will be accepted until the position is filled.

Application Procedure: Applicants should send a CV, statements of research and teaching interests, and names of three references to:

Professor Doug Cooper, Search Chair
Chemical Engineering Dept., U-222
191 Auditorium Road
University of Connecticut
Storrs, CT 06269
Phone: (860) 486-4019
Fax: (860) 486-2959
EMail: cooper@engr.uconn.edu

For more about ChemE at UConn, visit http://www.engr.uconn.edu/cheg/

Assistant Professor
College of Engineering
Rowan University
Glassboro, New Jersey
Qualifications: A doctorate in chemical engineering is required. Ph.D. candidates near completion will be considered. The successful applicant will have a specialization in biochemical engineering and plans to integrate that specialization into the undergraduate and graduate curricula and to interact with the abundant pharmaceutical biotechnology companies in the region. Interest in inter/multidisciplinary courses and laboratories and in the integration of engineering science and design into lower level courses is desired. Strong written and oral communication skills are required. Preference will be given to applicants with teaching and laboratory development experience. The successful candidate is expected to build on relationships developed with local industries.

Application Deadline: Review of applicants will begin on November 15, 1999 and continue until the position is filled. Starting date for this position is September 1, 2000.

Application Procedure: Interested candidates are invited to send a letter of application, a CV, a statement of teaching and research interests, and a list of three references to the address below:

Chemical Engineering Faculty Search Committee
Rowan University
312 Henry M. Rowan Hall
Glassboro, NJ 08028-1701
Phone: (609) 256-5310
Fax: (609) 256-5242
EMail: slater@rowan.edu

For more about ChemE at Rowan University, visit http://sun00.rowan.edu/programs/chemical/chemical.html

**Department Chair/Professor**
Department of Chemical Engineering
Clemson University
Clemson, South Carolina

Qualifications: Applicants must have a Ph.D. in ChemE or or a closely-related discipline. The successful candidate will have an exemplary record of personal achievement and leadership in research, and a demonstrated commitment to teaching and advising undergraduate and graduate students. The position offers a unique opportunity to lead a department that was recently successful in establishing an NSF Engineering Research Center: the Center for Advanced Engineering Fibers and Films.

Application Procedure: Candidates should forward their CV, selected publication reprints, and the names and addresses of at least three references to:

Department Chair Search Committee
Department of Chemical Engineering
Tenure-Track Faculty
Department of Chemical Engineering
University of Missouri-Rolla
Rolla, Missouri

Qualifications: A doctorate in chemical engineering or a related area is required. Rank and area of emphasis are open.

Responsibilities: The successful applicant will be expected to teach various undergraduate courses as well as graduate courses in his/her area of research and to develop an internationally-recognized research program.

Application Deadline: Applicants will be accepted until the position is filled, but interviews will begin on approximately March 1, 2000.

Application Procedure: Please send a complete resume, an outline of teaching and research plans, and the names of three references to:

Human Resources Services
Reference Number: R50378
University of Missouri-Rolla
1202 North Bishop Avenue
1870 Miner Circle
Rolla, MO 65409-1050
Phone: (573) 341-4111
EMail: chemengr@umr.edu

For more about ChemE at UMR, visit http://www.che.umr.edu/che/
Qualifications: Earned doctorate with specialization in Bioprocess Biochemical or Chemical Engineering or closely related engineering disciplines. The candidate is expected to have a commitment to high-quality undergraduate and graduate teaching and research. The successful candidate will be expected to obtain external funds to support the research program. This twelve-month, tenure-track position provides substantial collaborative and interdisciplinary opportunities with plant scientists and biotechnologists in the Biotechnology Center, and with engineers in the newly-organized Pharmaceutical Engineering Institute.

Application Deadline: Review of applications will begin on December 1, 1999, and continue until the position is filled. Application Procedure: Please submit current CV, list of publications, statement of teaching philosophy and research plans, transcripts, three letters of recommendation and cover letter, to:

Dr. John V. Perumpral
William S. Cross Professor and Department Head
Department of Biological Systems Engineering
Virginia Tech
200 Seitz Hall
Blacksburg, VA 24061-0303
Phone: (540) 231-6615
Fax: (540) 231-3199
EMail: perump@vt.edu

Individuals with disabilities desiring accommodations in the application process should notify Dr. John V. Perumpral at (540) 231-6615, by the application deadline.

For more about Biological Systems Engineering at Virginia Tech, visit http://www.eng.vt.edu/eng/bse/

Tenure-Track Faculty (2+)
Chemical Engineering Department
University of Florida
Gainesville, Florida

Qualifications: Candidates must have a Ph.D. in Chemical Engineering or related area.

Responsibilities: Responsibilities include developing and conducting sponsored and unsponsored research, teaching at the graduate and undergraduate levels, supervising the educational and research programs of graduate students, and participating in departmental, college and University affairs.

Application Deadline(s): The application deadline is December 15, 1999. If the position(s) have not been filled, a succession of application deadlines will be July 15, 2000, December 15, 2000.
Application Procedure: Please send a CV, detailed research and teaching interests, a list of at least three references, and a selection of reprints and preprints to:

Chair, Faculty Search Committee  
Department of Chemical Engineering  
University of Florida  
P.O. Box 116005  
Gainesville, FL 32611-6005  
Phone: (352) 392-0881  
Fax: (352) 392-9513  
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For more about ChemE at University of Florida, visit [http://home1.che.ufl.edu/che/](http://home1.che.ufl.edu/che/)

Publication Schedule

Your news items, faculty and student distinctions, as well as announcements, job postings and other information for the ChemE community are invited for the upcoming issue! Faculty, staff, students, alumni/ae - what's the latest exciting development in your lab? Perhaps you recently returned from a fascinating trip, professional conference, or participated in an honorary lecture series, or received a notable award. Don't be shy - the Course X community wants to hear the latest about you! Here are the dates for the December issue of the *Course X News*:

<table>
<thead>
<tr>
<th>Issue Date</th>
<th>Submission Deadline</th>
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<td>Monday, December 6th</td>
<td>Monday, November 29th</td>
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Thanks To...

Jenise Aminoff, Professor Bob Armstrong, Elaine Aufiero, Arline Benford, Janet Fischer, Dr. Janet Griffiths, Erja Kajosalo, Professor Emeritus Marcus Karel, Emmi Snyder, JoAnn Sorrento, and
Professor Daniel I.C. Wang for their contributions to this edition of the *Course X News*!

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