1981 Rates: $7.00 per line, $75.00 minimum charge (up to 10 lines). Average six typset words per line, nine lines per column inch. Add $7.00 for box number. Orders due six weeks before month of publication. Exceptions—IEEE Computer Society member ads for positions wanted: $10.00 up to 10 lines; $1.00 per line after. Situations wanted ads for unemployed Society members are run free. Include IEEE member number in either case.

To allow sufficient time for distribution of the magazine, please schedule job application deadlines at least three weeks after issue date, e.g., deadline of July 21 to send applications replying to ad appearing in July issue.

1981

JPL

COMPUTER SCIENTIST

JPL has an AI group engaged in building rule-based systems. We are seeking Ph.D. level computer scientists to work on automating mission-operations activities for controlling spacecraft. Research areas include planners for automatic code generation, plausible-inference systems, question-answering, and problem-solvers that can schedule spacecraft science experiments. Demonstrated experience in building problem-solving systems is desirable.

Please send resume to Professional Staffing, Department No. D67

Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive
Pasadena, CA 91109

An Equal Opportunity Employer M/F

DREXEL UNIVERSITY

The Department of Electrical and Computer Engineering will have a number of tenure track and visiting positions for the 1981/82 academic year. Rank and salary are negotiable. Preference will be given to individuals in the area of Computer Engineering, particularly microcomputers, hardware interfacing, and computer architecture. In addition, we encourage applications from areas such as Communications, Signal Processing, Microstructures, and Integrated Electronics. Applicants must have a Ph.D. in Electrical Engineering or related field and have a strong commitment to both teaching and sponsored research. Send Curriculum Vitae including references to Dr. Bruce A. Eisenstein, Head, Department of Electrical and Computer Engineering, Drexel University, Philadelphia, PA. 19104.

Drexel University is an equal opportunity/affirmative action employer.

PROFESSOR AND CHAIRPERSON

Department of Computer and Communication Sciences

The University of Michigan seeks applications from individuals with instructional experience, demonstrated administrative ability, and strong records of productivity in the computer sciences, preferably in the field of computer systems. Duties include leading a faculty of varied interests, recruitment of new faculty, representation of the Department, both within and without the university, development of Departmental experimental equipment facilities, research, teaching, and administration of a unit of approximately 12 faculty, 60 graduate and 150 undergraduate students. Salary is competitive and negotiable. All qualified individuals are encouraged to apply. Address applications or inquiries to: Professor Eric S. Robkin, Associate Dean, 2520 LSA Bldg., University of Michigan, Ann Arbor, MI 48109. A nondiscriminatory affirmative action employer.

TEACHING POSITION

UNIVERSITY OF CONNECTICUT

The Computer Science Division of the Electrical Engineering and Computer Science Department invites applications for a tenure-track faculty position at the rank of Lecturer, Instructor, Assistant, Associate, or Full Professor beginning September 1, 1981. The duties associated with this position center on teaching rather than research. Promotion and tenure considerations will be based on teaching excellence, curriculum innovations and administrative service contributions. The successful candidate will be expected to teach introductory courses in Computer and to coordinate, administer, and develop the service course offerings of the Computer Science Program. In addition, the position offers the opportunity to assist with Departmental administration.

Applicants should have at least an MS degree in Computer Science (or closely related area emphasizing computer usage), a demonstrated ability to teach introductory computer science courses, and experience in one or more areas of computer applications and/or software development. Administrative experience in academics, industry, or government is also desirable. Rank and salary will be dependent on background and experience. Qualified applicants should send a detailed resume and the names of three references to: Professor John R. White Chairman Computer Science Group EECS Department U-157 The University of Connecticut Storrs, CT 06268

The University of Connecticut is an equal opportunity/affirmative action employer.
UNIVERSITY OF TENNESSEE
AT CHATTANOOGA

Computer Science faculty position. Teach undergraduate and graduate courses in expanding program with business, scientific, and system options. Rank: Assistant/Associate. Salary: $20,000-$27,000 for 9 months based on experience and qualifications. PhD preferred. Excellent research and consulting opportunities available. Excellent living conditions. Send resume and three references to:

Dr. Jack Thompson, Head
Computer Science Department
School of Engineering
University of Tennessee at Chattanooga
TN 37402
UTC is an equal opportunity, affirmative action employer.

Cleveland State University

Candidates sought for research and teaching in BS, MS, and Doctoral programs. A tenure track faculty position will be available in Fall 1981. Doctorate in Electrical Engineering or related area required. Digital systems specialty area necessary. Salary and rank dependent upon qualifications. Send resume to:

Professor James H. Burghart
Chairperson, Electrical Engineering
Cleveland State University
1983 E. 24th St. Cleveland, Ohio 44115
Equal Opportunity Employer M/F/H.

FACULTY POSITIONS
IN COMPUTER ENGINEERING AND LSI/VLSI

The Department of Electrical and Computer Engineering at the University of California, Santa Barbara, invites applications for two tenure-track faculty openings.

One position is in the area of computer engineering, with specialization in at least one of the following preferred: computer architecture, design automation, fault tolerant computer design, computer communication networks, or digital system design. The second position is in the area of LSI/VLSI circuit design and technology. The selected individual will be given charge of an excellent solid state laboratory, and is expected to work with two existing active groups within the department, in circuit design and in solid state, and to create a strong capability in the LSI/VLSI circuits area in which the interests of both groups overlap.

Both positions start at the rank of an assistant professor, although higher level appointments are possible for individuals with outstanding records. Candidates should have a doctorate, an outstanding research potential or a distinguished research reputation, the ability to attract external research funding, and a strong commitment to teaching at the undergraduate and graduate levels. Applicants should send their resume, copies of recent publications, and the names of at least four professional references to:

Professor Sanjit K. Mitra, Chairman
Department of Electrical 
& Computer Engineering
University of California
Santa Barbara, CA 93106
An equal opportunity/affirmative action employer

Computer Science faculty position. Teach undergraduate and graduate courses in expanding program with business, scientific, and system options. Rank: Assistant/Associate. Salary: $20,000-$27,000 for 9 months based on experience and qualifications. PhD preferred. Excellent research and consulting opportunities available. Excellent living conditions. Send resume and three references to:

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Professor Sanjit K. Mitra, Chairman
Department of Electrical 
& Computer Engineering
University of California
Santa Barbara, CA 93106
An equal opportunity/affirmative action employer

POTTECHNICAL INSTITUTE OF NEW YORK

Several tenure track faculty positions in Computer Science are available for September, 1981. PhD and strong credentials required. Candidates are expected to participate in both teaching and research activities. Excellence of academic and professional background more significant than particular area specialization. However, the following technical areas are of special interest: Computer Architecture, VLSI, Defense/Computer science, Software Engineering, Database Management, Program Language Methodology, Operating Systems. Rank and salary commensurate with qualifications. Send resume and statement of career objectives to:

Professor Henry Ruston
Computer Science Division
Polytechnic Institute of New York
333 Jay Street
Brooklyn, New York 11201
Equal Opportunity Employer M/F/H.

HOFSTRA UNIVERSITY
COMPUTER SCIENCE
Department Head and Faculty

Tenure track faculty and department head positions. Rank/salary commensurate with qualifications. PhD required. Primary faculty duty is undergraduate teaching in an established active program, producing 90 BS/BA degrees annually. A likely-to-expand graduate program includes theory and practice. Research/curriculum development encouraged. The 250 acre campus serves residents and commuters with 52 buildings and near 1,000,000 volume library. Our Long Island location affords a variety of professional, cultural, recreational and residential choices. Hofstra is a private university and an AA/EEO Employer. Resume to:

Philip J. Panzea, Acting Head
Computer Science Department
Hofstra University
Hempstead, N.Y. 11550
(516) 590-3504

ZILOG TRAINING & EDUCATION DEPT
CUPERTINO, CALIFORNIA

Applications are invited for faculty positions with Zilog. Bachelor's degree required. Knowledge and experience in any of the following desired: CMOS, VLSI, design automation, computer architecture, hardware description languages, microprocessor programming, computer networking. Excellent opportunity for working professionals and recent graduates. Zilog offers highly competitive compensation and benefits package. Position includes travel. Please send resume and position number (ZT 10005) to:

Robert J. Albright
Manager, Training & Education Dept.
Zilog
10340 Bubb Rd.
Cupertino, CA 95014

FACULTY POSITION
THE GEORGE WASHINGTON UNIVERSITY

The Department of Electrical Engineering & Computer Science expects to have openings for faculty positions starting in 1981. The areas of interest include Computer Science and Data Communications. Persons with an earned doctorate degree and research experience, with an interest in both teaching and research, should send CV, lists of publications and references, to Professor A. D. Friedman, Chairman, Department of Electrical Engineering and Computer Science, School of Engineering & Applied Science, The George Washington University, Washington, D.C. 20052. In addition to U.S. citizens, persons with permanent residence will be considered.

The University is an affirmative action and equal opportunity employer.

COMPUTER SCIENCE
CONCORDIA UNIVERSITY

Tenure track and temporary positions are available at all levels. Areas of special interest include: data base systems and management, computer and digital hardware, and computer input and output; other areas will also be considered. The department offers undergraduate and graduate programs in English. Apply giving resume and names of three references to: Dr. C.Y. Suen, Chairman, Department of Computer Science, Concordia University, 1455 de Maisonneuve Blvd. West, Montreal, Quebec H3G 1M8, Canada.

FACULTY POSITION OPENING

The Computer Science Department of the School of Advanced Technology of the State University of New York at Binghamton seeks faculty in software engineering, data base systems, compilers and operating systems, fault-tolerant computing, design automation, distributed processing, microprocessors and applications. This dynamic growing department offers programs leading to the MS and PhD. The industry community nearby (IBM, GE, Singer-Link, et al.) offers excellent opportunities to SUNY faculty for interactions with the computer industry. Send resumes and four references to:

Dr. John J. Colligan
School of Advanced Technology
State University of New York
Binghamton, New York 13901
An Equal Opportunity/Affirmative Action Employer

UNIVERSITY OF PORTLAND

Electrical/Computer Engineering faculty positions at the University of Portland. Specializations in computers (hardware, software), electronics, or power. PhD required. Tenure track positions, senior rank possible. Available September, 1981. The University emphasizes quality instruction and professional involvement. Consulting with local industry is encouraged. Send resume to: Dr. Robert J. Albright, Chairman of EE Department, School of Engineering, University of Portland, Portland, Oregon 97203. An affirmative action/equal opportunity employer.

March 1981
RESEARCH AND TEACHING ASSISTSHIPS  
Dept. of Electrical Engineering & Computer Science  
School of Engineering & Applied Science  
The George Washington University

20 Teaching and Research Assaultships are available for the 1982-83 academic year. Salaries range from $3,000 to $13,000, after tuition is paid. Research areas include interactive computer graphics, interactive systems, fault tolerant design, image processing, security and privacy, micro programming and computer architecture, proofs of correctness, data base systems, and human factors of interactive systems. Equipment include a VAX 11/780, Vector General 3400 and Ramtek 9400. For applications, which are due May 1, please write Prof. A. Friedman, Chairman, Dept. of Electrical Engineering & Computer Science, The George Washington University, Washington, D.C. 20052.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

ELECTRICAL and COMPUTER ENGINEERING: The Department of Electrical and Computer Engineering at the University of the Pacific invites applications for a tenured faculty position available in Electrical and Computer engineering. Candidates should possess a broad background and interest in both Electrical and Computer Engineering, and be able and willing to teach undergraduate courses in both areas. Computer Engineering at UOP is a new fast-growing program and the appointed faculty member will be asked to help provide leadership with the program. The 11-month appointment, available September 1, 1981, will be made at the Assistant/Associate/Full Professor or Lecturer rank. A PhD or equivalent academic industrial experience is preferred, but an MS with significant experience will be considered. Salary is competitive and commensurate with experience and qualifications. Applicants must have a strong commitment to undergraduate teaching, to the cooperative education program required of all students, and a willingness to teach core courses as well as major subject areas. A resume with three references should be submitted to: Dr. Robert H. Lippman, Dean, School of Engineering, University of the Pacific, Stockton, CA 95211. An equal opportunity/affirmative action employer.

UNIVERSITY OF MARYLAND  
BALTIMORE COUNTY

Tenure-Track and Tenured Faculty Positions in Computer Science. Applications are invited for faculty positions at the assistant, associate, or full professor level. Available September 1, 1981. Candidates should have a PhD in computer science or in a closely related field, ability to teach a broad range of basic computer science courses, and demonstrated potential for research. The Department offers a BA program in Mathematics, MS and PhD programs in Applied Mathematics. Current graduate course offerings are grouped into the following areas: Applied Analysis, Computer Science, Control Systems Science, Numerical Analysis, Operations Research, and Statistics. Send a curriculum vitae including names of three references to: Y. M. Lynn, Chairman, Department of Mathematics, University of Maryland Baltimore County, Catonsville, Maryland 21228.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

UNIVERSITY OF MINNESOTA-MORRIS

Seeks a PhD or ABD in Computer Science or closely related area to teach upper and lower division Computer Sci. courses. Candidate must have at least 30 grad. sem. credits in Computer Sci. Tenure-track position, requires strong interest in teaching and research. Teaching load 8 to 10 cr/hrqtr. Candidates will be expected to develop upper division Computer Sci. courses such as operating systems, compilers, analysis of algorithm and also teach an occasional math course. Starts Sept. 16, 1981. Salary negotiable. UMM is a 4 year liberal arts campus of the University of Minnesota; 150 mi. west of Mpls.—St. Paul at the edge of Minnesota's famous lake region.

Send resume, transcripts and three letters of reference to: Dr. James Olson, Chairman, Division of Science and Math, University of Minnesota-Morris, Morris, MN. 56267.

The University of Minnesota-Morris is an equal opportunity educator and employer. Women and minority applications are particularly encouraged.

COLUMBIA UNIVERSITY

Department of Computer Science  
Faculty Positions at all Ranks

Columbia University wishes to build a Computer Science Department of great distinction and has allocated major resources for faculty, equipment, and space for this purpose. The PhD and other degree programs have been established.

Eleven tenure-line faculty are currently in the department. Additional faculty are sought at all ranks and in all areas of computer science. Candidates for assistant professor should exhibit exceptional research promise while those seeking a more senior position should have an outstanding record of research and teaching. Interest and ability in teaching graduates and undergraduates is necessary.

Send resume and the names of at least three references to:  
J. F. Traub  
Chairman,  
Computer Science Department  
Seeley W. Mudd Building  
Columbia University  
New York, NY 10027

Columbia University is an equal opportunity/affirmative action employer.

NORTH CAROLINA STATE UNIVERSITY

Faculty positions at all levels will be available in the Department of Computer Science beginning August, 1981. Duties include research and teaching of graduate and undergraduate courses. Applicants with strong credentials in all areas of computer science will be considered but are especially sought in software engineering, computer architecture, computer graphics, computer communications, and information retrieval. Applications are invited for a visiting position with rank open also are encouraged. PhD or equivalent required. Send resume and names of references to Dr. W. E. Robbins, PO Box 5972, Department of Computer Science, North Carolina State University, Raleigh, NC 27650. NCSC is an affirmative action/equal opportunity employer.

Department of Information Engineering  
UNIVERSITY OF ILLINOIS  
AT CHICAGO CIRCLE

Tenure-track and tenured faculty positions are available effective January 1981 or as soon as possible thereafter. Duties include undergraduate and graduate teaching and research. Rank and salary depend on qualifications. An earned doctorate in Electrical Engineering or in a closely related area is required. Demonstrated teaching and research abilities are highly desirable. Preferred areas of specialization are: communications, computer hardware, software, computer graphics, and computer architecture. Send resume, list of publications and the names of at least three references by March 31, 1981 to:  
P. L. E. Uslenghi  
Chairman of Faculty Search Committee  
Department of Information Engineering  
University of Illinois at Chicago Circle  
P. O. Box 4348  
Chicago, IL 60680

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.
RICE UNIVERSITY—Applications are invited for a faculty position in the Computer Science Program at Rice University. Applicants should have a PhD degree with a commitment to excellence in teaching and research. Candidates from all areas of computer science and engineering will be considered. However, the program has a special interest in candidates with research experience in the areas of software engineering parallel computing systems. Salary and rank will depend on qualifications. Rice University is an equal opportunity/affirmative action employer. Send resume to T. A. Rabson, Chairman, Electrical Engineering Department, Rice University, Box 1892, Houston, TX 77001.

The Information Display Systems Project announces assistships in the above areas. We are developing analysis and design methodologies and metrics for user-computer interfaces by drawing on principles from Psychology, Human Factors, and Graphic Arts; designing higher level software tools to simplify implementation and modification of Interactive Systems; and implementing and extending the Sigraph core System. Salaries range from $7,000 to $12,000.

For further information, write to Prof. M. B. Feldman or J. D. Foley, Dept. of Electrical Engineering & Computer Science, The George Washington University, Washington, D.C. 20052.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

The Department of Electrical and Computer Engineering, Yarmouk University, Irbid, Jordan, invites applications for faculty positions in the following areas: Computer Architecture and Microprocessor Systems, Fault-Tolerant Computing, Computer Performance and Evaluation, Operating Systems, Programming Languages, Design Automation, LSI and VLSI Technology. The positions are at the Assistant, Associate, and Full Professor levels and are available September 1981. A strong commitment to research and teaching at the undergraduate and graduate levels is required. Applicants are invited to send their resume, copies of publications, and three references to: Professor Ali Nayfeh, Dean, Faculty of Engineering, Yarmouk University, Irbid, Jordan.

The Department of Computer Science invites applications for two tenure-track faculty positions. Rank and salary are dependent upon the background and experience. Duties include teaching computer science courses and participating in the planning, growth and development of the department. Facilities include a VAX 11/780. Candidates familiar with all major aspects of computer science and committed to teaching are being sought. PhD preferred. Send resumes and the names of three references to: Denis Donnelly, Chairman, Division of Science, Siena College, Loudonville, NY 12211. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN COMPUTER SCIENCE

We invite applications for a tenure track position at the assistant or associate level. The position offers the opportunity to help develop a full program in an expanding department of a branch of the State University that serves the southern New Jersey-Philadelphia area. The renewable three year appointment can start in July or September 1981. The salary will depend on experience and qualifications. Benefits are excellent. The teaching load is three courses per semester.

Applicants should have a PhD in computer science or a related field and experience in teaching and research. Aliens must have permanent residence status. Address a resume and if possible three letters of recommendation to:

Daniel K. Butler
Department of Mathematics
Cameron College of Arts and Sciences
Rutgers, the State University of New Jersey
Camden, N.J. 08102

Rutgers is an Equal Opportunity, Affirmative Action Employer.

PURDUE UNIVERSITY

Faculty position at Purdue University. The School of Electrical Engineering seeks applicants for tenure track faculty positions. PhD in electrical engineering or equivalent is required. Areas of specialization are not restricted. However, computer engineering is an area of preference. Resumes should be directed to: Head, School of Electrical Engineering, Purdue University, West Lafayette, Indiana 47907. Immigration status of non-U.S. citizens should be stated in dossier. Purdue University is an equal opportunity/affirmative action employer.

Faculty Positions in Computer Engineering and Science CASE WESTERN RESERVE UNIVERSITY

Applications are invited for several tenure track appointments at the assistant, associate or full professor rank, beginning January or August, 1981.

Candidates from all areas of specialization in computer engineering and computer science are expected to have strong commitment to research and education. The department is seeking candidates with a strong interest in research and effective teaching experience. The department has 120 undergraduate students and 75 graduate students enrolled in the MS and PhD programs in computer engineering and computer sciences, and has well-equipped laboratory facilities including access to DEC 2060 and VAX 11780 systems. Qualified applicants should send their applications to:

Professor C.W. Rose, Chairman
Department of Computer Engineering and Science
Case Western Reserve University
Cleveland, Ohio 44106


SUNY at Stony Brook

The Department of Electrical Engineering, SUNY at Stony Brook, invites applications for anticipated openings at the assistant/associate professor level and higher. These positions will be tenure-track with salary negotiable. The department has expanding undergraduate and graduate programs and extensive research activities. The areas of prime interest are computer engineering, digital systems, communications and computer networking, VLSI design and fabrication, experimental device fabrication, microwave acoustics and microwave magnetics and robotics. Applicants in other areas will be considered. The department has close relations with local high-technology industry including a major cooperative effort in the VLSI area. Stony Brook combines the attraction of a semi-rural location with proximity to the resources of the New York City area. Please submit resume to: Stephen D. Shapiro, Chairperson, Department of Electrical Engineering, SUNY at Stony Brook, Long Island, N.Y. 11794. Equal Opportunity/Affirmative Action Employer.

COMPUTER SCIENCE ENGINEERING FACULTY

Applicants are invited for tenure-track appointment in the Department of Computer Science, Wright State University, with rank and salary open. The state-supported University is located in a high technology environment among industrial and military research and development facilities. The Department offers Engineering and Science programs at both the undergraduate and graduate levels. It has 19 full-time and 12 part-time faculty, 700 undergraduate and 250 graduate majors. A strength of the department is its laboratory facilities. Candidates should have a PhD degree and strong research interests. They will be expected to contribute to both research and teaching. Please send resumes and names of references to:

Dr. Larry A. Crum, Chairman
Department of Computer Science
Wright State University
Dayton, OH 45435

Wright State University is an equal opportunity and affirmative action employer.

FACULTY POSITION AT THE UNIVERSITY OF CENTRAL FLORIDA

The Electrical Engineering Department is seeking applicants for a tenure-track faculty position at the assistant/associate professor level. Applicants should have a PhD in Electrical Engineering or related discipline with specialization in Digital Systems or Solid State Electronic Devices and Microelectronics. Appointee will be expected to teach undergraduate and graduate courses in electrical engineering and to participate in a strong ongoing research program. The University of Central Florida, located in Orlando, is in the midst of an industrial community with a high technology community. In addition, the University is seeking major D.O.D. agencies in the area as well as the NASA Kennedy Space Center, which has a major aerospace research and development program. The industrial community and the Federal agencies also provide additional opportunities for research. Send resume to: Dr. Brian Petrasko, Chairman, EECS Department, University of Central Florida, Orlando, FL 32816. The University of Central Florida is an AA/EEO Employer.