1981 Rates: $7.00 per line, $75.00 minimum charge (to 10 lines). Average six typset words per line, nine lines per column inch. Add $7.00 for box number. Order 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.

UNIVERSITY OF SANTA CLARA

The Department of Electrical Engineering and Computer Science has a new tenure track opening at the Assistant Professor level available beginning in September 1981. Applicants must have completed the PhD in Computer Science or Electrical Engineering by that date. Duties include teaching at both the graduate and undergraduate levels, research, and administrative activities. Preference will be given to applicants combining a knowledge of both hardware and software; industrial experience is desirable. There is also a strong probability that a Visiting Appointment, in the general areas of software or computer science theory, will be available for the academic year 1981-82.

The University of Santa Clara is a private, Jesuit University located about 45 miles south of San Francisco in the midst of the high technology industry of Silicon Valley.

Available computing facilities include DEC-System 2060 and PDP-11 timesharing systems, HP 2100 microprogrammable computer, and complete microprocessor facilities.

Candidates for either position should submit an application by March 1, 1981, with the names of at least three references, to Ronald L. Danielson, Chairman, Search Committee, Department of EECS, University of Santa Clara, Santa Clara, California 95053.

The University of Santa Clara is an affirmative action/equal opportunity employer.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

Electrical Engineering Department has faculty vacancies in digital systems design and computer architecture. Qualifications include a PhD, dedication and high-quality teaching at both undergraduate and graduate levels, and a strong interest in performing sponsored research, primarily with students in MS programs. The primary interest is in outstanding individuals who have recently completed doctoral programs or will do so within the next year. Experienced candidates with exceptional qualifications and demonstrated ability to lead in the development of curricula and a research program will also be considered. Teaching and research areas include: computer architecture, computer-aided design, computer networks, embedded computer system design, large-scale concepts and real-time signal processing, implementation techniques. Send resume, publications list and the names of three references to Professor Donald E. Kirk, Chairman, Dept. of Electrical Engineering, Naval Postgraduate School, Monterey, CA 93940. An equal opportunity/affirmative action employer.

UNIVERSITY OF CALIFORNIA
AT BERKELEY

Invites applications for one or more tenure track faculty positions in Computer Science. Applications for the Assistant Professor level will be given highest preference.

The Computer Science Division of the Department of Electrical Engineering and Computer Science is experiencing a healthy growth in facilities and resources, and would like to complement its expertise in the areas of experimental computer science, hardware and software. Teaching and research experience in one or more of the following areas is preferred: artificial intelligence, computer graphics, computer networks, data base systems, distributed computing, programming languages, software engineering, theoretical computer science, VLSI architecture.

The Computer Science Division provides a dynamic and exciting research and teaching environment. Facilities for research include three VAX11/780's, with more expected. Teaching facilities include seven PDP11-70's, one VAX, and an IBM 4341.

Applicants should have a doctoral degree and demonstrated research accomplishments. Send resume and names of three references by March 1, 1981 to: Professor Carlo H. Sequin, CS Division, EECS Department, UC Berkeley, CA 94720. UC is an affirmative action employer.

YARMOUTH UNIVERSITY
Irbid, JORDAN

Applications for faculty members in the following areas are invited: computer engineering, microprocessor systems, fault-tolerant computing, computer performance and evaluation, 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
Yarmouth University
Irbid, JORDAN

MICHIGAN STATE UNIVERSITY

The Department of Computer Science invites applications for tenure track positions at the Assistant Professor level. Candidates from most areas of specialization in computer science or computer engineering will be considered. However, the department has a special interest in candidates in the areas of programming languages, computer architecture, design of computer systems and networks, parallel computation, automata theory, operating systems, and data flow machines. Candidates should have a PhD in computer science or computer engineering and will be expected to contribute to both the research and teaching programs. Applications will be accepted until the positions are filled. Applicants should send a resume, a statement of research plans, an indication of teaching interests and the names of three references to:

Dr. Harry G. Hedges, Chairman
Department of Computer Science
Michigan State University
East Lansing, Michigan 48824

Michigan State University is an Equal Opportunity/Affirmative Action Institution and encourages applications from women and from members of ethnic minority groups.
ILLINOIS STATE UNIVERSITY
Applied Computer Science Department

Tenure track faculty positions for Aug 81 in Applied Computer Science. Areas: All considered. Special interest in structured analysis and design, on-line systems, data comm. Qual: PhD and computer experience or MS and industry experience. Commitment to teaching and application driven research. Contact: Dr. R. Powers, Cmp, Applied Computer Science Department, Illinois State University, Normal, IL 61761. Equal opportunity/affirmative action university.

OAKLAND UNIVERSITY, ROCHESTER, MICHIGAN. The School of Engineering invites applications for positions in the following disciplines and preferred areas:

- COMPUTER SCIENCE: Computer architecture and parallel processing; data and storage structures and operating systems; theory of languages, theory of computation, and programming languages; software engineering.

- ELECTRICAL AND COMPUTER ENGINEERING: Integrated circuits, solid-state devices and automotive electronics; integrated optics, electro-optic devices and quantum electronics; signal processing, computer-communication networks and computer-aided design.

Starting date August 15, 1981. Duties include undergraduate and graduate teaching and research. Interest in sponsored research essential. Doctorate required. Positions are tenure track with salary and rank dependent upon qualifications. Oakland University is a PhD granting, state supported University and is an Equal Opportunity/Affirmative Action employer. Send resume to: Dean of Engineering, Oakland University, Rochester, Michigan 48063.

THE UNIVERSITY OF TEXAS AT SAN ANTONIO

The Division of Mathematics, Computer Science, and Systems Design invites applications for tenure-track positions at the Assistant and Associate Professor level for January and September 1981. Applicants should have a PhD in Computer Science or a related field. Responsibilities include teaching at the graduate and undergraduate level and research. Preference will be given to January applicants and to persons with teaching competence and research interests in Data Base Systems, Programming Languages, Digital Systems Design, and Software Engineering. Applicants should send their resume to: Professor Stanley G. Waymert, Division Director, Division of Mathematics, Computer Science, and Systems Design, The University of Texas at San Antonio, San Antonio, Texas 78285, (512) 691-4452. The University of Texas at San Antonio is an Equal Opportunity/Affirmative Action Employer.

TULANE UNIVERSITY

NEW ORLEANS, LOUISIANA

COMPUTER SCIENCE DEPARTMENT

One or two full time tenure-track positions beginning August, 1981. Applicants should have a doctoral degree in Computer Science, Computer Engineering or a related field. Duties include teaching undergraduate and graduate courses, supervision of graduate students and development of research areas. Applicants are solicited particularly in the following areas:

- Software Engineering
- Programming Languages
- Distributed Processing
- Artificial Intelligence
- Database Systems

Highly qualified applicants in other areas will be considered. Tulane University is a privately endowed institution dedicated to academic excellence. Please send resume and three references to: Dr. Victor J. Law, Head, Computer Science Department, Tulane University, New Orleans, LA 70118. Closing date: March 1, 1981. AA/EOE.
FACULTY POSITIONS
Department of Electrical Engineering and Computer Science
University of Wisconsin—Milwaukee

The department expects to fill several positions in Computer Science by the Fall of 1981. All applicants should have a strong commitment to teaching and research. Senior candidates are expected to have an excellent record of scholarly and teaching achievements. The department offers rapidly growing undergraduate and graduate programs in Computer Science and has excellent research facilities, including a DEC VAX 11/780 computer. Access is also readily available to the University Computer (UNIVAC 1100/80). Salaries will depend on qualifications and experience and will be competitive. Responses number with names of at least three references should be sent to Professor R.J. Kueger, University of Wisconsin—Milwaukee, P.O. Box 784, Milwaukee, Wisconsin 53201. The University of Wisconsin-Milwaukee is an equal opportunity/affirmative action employer.

UNIVERSITY OF SOUTH CAROLINA

The Department of Computer Science of the University of South Carolina has several tenure track positions at both junior and senior levels in Fall, 1981. Areas of interest sought include but are not limited to operating systems, programming languages and systems, design and analysis of algorithms, software engineering, and data base management systems. The Department offers an excellent environment for professional growth with competitive salaries. Faculty normally teach two courses per semester. Applicants should have a Ph.D degree in computer science related area, and should be committed to teaching and research. Submit a resume with the names and addresses of three references to: Dr. Robert L. Cannon, Chairman, Department of Computer Science, University of South Carolina, Columbia, SC 29080. USC is an affirmative action/equal opportunity 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 computing will be considered; the Department has a special interest in candidates in the software engineering, operating systems, architecture, and computer graphics areas. Candidates for assistant professor should have a strong commitment to teaching and research; candidates for senior positions must have an established record for scholarly research and effective teaching.

The Department has 120 undergraduate students and 75 graduate students enrolled in the MS and Ph.D programs in computer engineering and computer sciences, and has extensive laboratory facilities including access to DEC 2060 and VAX 11780 systems. Qualified applicants should send their resumes to:
Professor C.W. Rose, Chairman
Department of Computer Engineering and Science
Case Western Reserve University
Cleveland, Ohio 44106

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January 1981

Computer and Communication Sciences
THE UNIVERSITY OF MICHIGAN

Positions are available at all levels for creative faculty members with primary research interests in Computer Systems: programming languages, operating systems, compiler construction, and the like. Especially welcome are applications from persons working on experimental or pragmatic studies in these areas: principled design projects, novel implementations, and new methods of structuring software.

Send applications and names of references to: Professor William C. Rounds, Computer and Communication Sciences Department, the University of Michigan, Ann Arbor, Michigan 48109.

A nondiscriminatory affirmative action 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 and computer networks. Salary and rank will depend on qualifications. Rice University is committed to a nondiscriminatory affirmative action/equal opportunity employer.

Send resumes to T. A. Rabson, Chairman, Electrical Engineering Department, Rice University, Box 1892, Houston, TX 77001.

COLORADO STATE UNIVERSITY

The Computer Science Dept. invites applications for a tenure-track position as an Asst. Prof. starting August 1981. Preference given to candidates with research interests and backgrounds in graphics, data base or microcomputer hardware, software, real time, I/O interfacing, or operating systems. The position is to be full time, 9 months in length.

Salary is negotiable. Send curriculum vitae, a description of research interests, and names of three references to: Computing Science, Colorado State University, Ft. Collins, CO 80523 by March 20, 1981. CSU is EEO/AA employer.

DEPARTMENT OF COMPUTER SCIENCE
CALIFORNIA STATE UNIVERSITY, NORTHridge

Applications are invited for a faculty position in the CSU Computer science department. The department is searching for faculty in any area of computer science. Salary will be commensurate with experience and terminal degree.

Applications should be sent to:
Professor Jack Alanen, Chair
Department of Computer Science
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330

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Faculty Positions
UNIVERSITY OF CONNECTICUT

The Computer Science Division of the Electrical Engineering Department invites applications for faculty positions. The Department invites applications for tenure-track faculty positions at the Assistant, Associate, or Full Professor level beginning September 1, 1981. The Department invites applications for tenure-track faculty positions at the Assistant, Associate, or Full Professor level beginning September 1, 1981. The University of Connecticut is an Equal Opportunity Affirmative Action Employer.

Faculties of Information and Computer Science
Georgia Institute of Technology
Atlanta, Georgia 30332

The School of Information and Computer Science anticipates filling one or more faculty positions in the coming academic year. These positions will be at either junior or senior rank. The School offers the BS, MS, and PhD degrees with specialization in either information or computer science. These positions will be at either junior or senior rank. The School offers the BS, MS, and PhD degrees with specialization in either information or computer science. The School offers the BS, MS, and PhD degrees with specialization in either information or computer science. The School offers the BS, MS, and PhD degrees with specialization in either information or computer science. The School offers the BS, MS, and PhD degrees with specialization in either information or computer science.

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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 achievement. 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.

ASSISTANT PROFESSOR LEVEL AND HIGHER—
The Department of Electrical Engineering, SUNY at Stony Brook, invites applications for anticipated openings at the Assistant Professor level. 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; School of Natural Science and Math. Permanent position, beginning September, 1981. Instructor/Assistant Professor/Associate Professor rank, based on experience and academic credentials. Teaching and/or data processing experience desired. Duties include teaching 12 credits per semester of undergraduate Computer Science, beginning through upper level, in an applied Computer Science program. Background in FORTRAN, COBOL, and a block structured language useful, with some specialized experience desired. Assist in curriculum development, as related to various computer systems, micro through main. Advise students, serve on faculty committees, participate in academic and professional activities. Application deadline: February 20, 1981. Send application to: Dr. Gerald Burick, Chairperson Search Committee, 305 G Weyandt Hall, Indiana University of Pennsylvania, Indiana, PA 15705. IUP is an Affirmative Action, Equal Opportunity Employer offering excellent fringe benefits.

FACULTY POSITIONS
Computer Science
TEXAS TECH UNIVERSITY

The Computer Science Section of the Department of Electrical Engineering invites applications for several tenure-track positions. We are looking for software—and software/hardware—oriented candidates for undergraduate and graduate students. The Computer Science Section offers the BS and MS in Computer Science and supervises a PhD in interdisciplinary engineering. Members of the Computer Science faculty enjoy excellent computing facilities (IBM/370, VAX-11, TI-990, among others); nominal teaching loads; and high competitive salaries and benefits. Because of the new programs and rapid growth of Computer Science at Texas Tech, there is an excellent opportunity for new faculty members to develop new courses and teaching and research interests or to participate in ongoing research projects.

The Department of Electrical Engineering is highly research oriented; sponsored research amounts to over $3M this year. PhD in Computer Science or closely related area required. Applicants should send resume and the names of three references to: Professor M. F. Traub, Coordinator Computer Science Section/E.E. Department P.O. Box 4439 Texas Tech University Lubbock, Texas 79409 Texas Tech is an AA/EEO Employer.

UNIVERSITY OF NEW HAVEN
Computer Science (Engineering)

The University of New Haven invites applications for full-time, tenure track appointment to the Electrical Engineering faculty. PhD required. Academic background in Electrical Engineering, Academic background in Electrical Engineering and industrial experience is desirable. New faculty will participate in the expanding Computer Science (Engineering) activities of the department including the development of a degree program and teaching. Excellent opportunity for professional growth in ideal location. Salary negotiable and competitive. Starting date for position, September, 1981. Applications including resumes and the names of three references must be received by March 1, 1981 and should be mailed to: Gerald Kirwin, Chairman EE Dept. The University of New Haven 300 Orange Avenue West Haven, CT 06516

The University is an equal opportunity affirmative action employer.

UNIVERSITY OF TEXAS AT AUSTIN
Electrical Engineering faculty positions are available, the area of computer engineering and large scale integrated circuits are preferred. Qualifications must be commensurate with rank and include an outstanding academic record, significant involvement in original research, sincere interest in teaching, and a doctorate in electrical or computer engineering. Duties will include teaching undergraduate and graduate courses. Send resume to: Dr. H.H. Woodson, Chairman, Department of Electrical Engineering, The University of Texas at Austin, P.O. Box 77912, Austin, TX 78712, an Equal Opportunity and Affirmative Action Employer.

UNIVERSITY OF CONNECTICUT
Electrical Engineering and Computer Science. Assistant, Associate or Full Professor. Salary $21,000- negotiable. Target date—September 1, 1981. Teaching undergraduate courses in Electrical Engineering. Graduate teaching and research development in one or more of the following areas: 1. Statistical Theory of Digital Communications. 2. Computer Communications Network. 3. Digital Signal Processing and Digital Filtering with interest in applications. 4. Microprocessor Systems. 5. Electronics, Electromagnetics with applications to power, etc. 6. Microelectronics and Fiber Optics. Sustained effort to obtain and carry out sponsored research in the candidate’s field of interest. PhD in Electrical Engineering or related field. Demonstrated ability to initiate and carry out research and/or projects in one or more of the above areas. Ability and interest to teach EE courses at all levels. Publications, sponsored research, teaching experience, relevant industrial experience, appropriate to rank. Reply to David Jordan at U-157, University of Connecticut Storrs, Connecticut 06268.

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Dr. Harry C. Andrews
General Manager
COMTAL/3M
505 W. Woodbury Rd.
Altadena, CA 91001
(213) 797-1175

FACULTY POSITIONS AT LSU
The Department of Electrical Engineering invites applicants for tenure track positions starting August 1981. Applicants must have PhD degree and potential excellence in teaching and research. Computer hardware is an area of special need; however all applicants will be considered. All appointments will be at a very competitive salary and at a rank commensurate with experience (preference given to assistant professors). Send resume, three references, and a description of teaching and research interest to Prof. William A. Porter, Electrical Engineering Department, Louisiana State University, Baton Rouge, LA 70803. LSU is an equal opportunity/affirmative action employer.
COMPUTER SCIENCE, Assistant Professor, tenure-track for fall, 1981. Duties include teaching computer science courses and supervising projects in the Harvey Mudd College Engineering/Math Clinics. Candidates familiar with all major aspects of Computer Science and committed to teaching are being sought. PhD preferred. Send resume and names and addresses of three references to:

B. Samuel Tanenbaum
Dean of Faculty
Harvey Mudd College
Claremont, CA 91711

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CALIFORNIA STATE UNIVERSITY, FULLERTON

The Faculty of Electrical Engineering at California State University, Fullerton seek applications for tenure-track positions at the Assistant Professor level and for open Lecturer positions starting in September 1981. Outstanding candidates may also be considered for Associate Professor level. Applicants should hold a PhD in Electrical and Computer Engineering with specialization in computers and digital systems. Candidates must indicate interest in tenure-track or lecturer positions or both. Send resume and three references before March 1, 1981 to Dr. Mohinder S. Grewal, Chair, Electrical Engineering Faculty, Division of Engineering, California State University, Fullerton, CA 92634. CSUF is an Affirmative Action/Equal Opportunity Title IX Employer.

UNIVERSITY OF COLORADO
Faculty Position in Computer Systems

The Department of Electrical Engineering at the University of Colorado, Boulder has a tenure-track position open in the computer systems area. Duties include graduate and undergraduate teaching, curriculum development, research and graduate student supervision. The applicant should have a PhD in Computer Engineering or Computer Science. The position is open at any professorial level. Applicants should send their curriculum vitae and three letters of recommendation to: Prof. R. A. DeSantis, Chairman, Department of Electrical Engineering, University of Colorado, Boulder, Colorado 80309.

UNIVERSITY OF IOWA

Applications invited for at least two tenure-track positions beginning 16 September 1981. Research in the area of computer science (including hardware/software interfacing) is essential. PhD or equivalent required; rank and salary commensurate with qualifications. Visiting appointments may also be available. The Department, with 18 faculty, offers all three degrees. We have 180 majors, 50 graduate students, a PDP 11/60 (Unix), many microcomputers, and several graphics terminals. The Computing Center operates a 12-megabyte Am- dahl 470 V/8, 10 gigabytes of disk, and 200 terminals. Send curriculum vitae and letters directly from three references to: Prof. R. A. Parker, Search Committee Chairman, Computer Science Department, Washington State University, Pullman, WA 99164. WSU IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

COMPUTER SCIENCE FACULTY POSITIONS

Cal State University, Fullerton has several open tenure-track and/or lecturer positions in the Department of Computer Science for September 1981. Qualifications for faculty include an advanced degree in Computer Science, or in a closely related discipline coupled with significant achievements in Computer Science or Computer Engineering. Must be specialist in one or more of the following fields: Languages; Compilers; Operating Systems; Data Base System Design; Software Engineering; Microprocessors; Automata and Theoretical Computer Science. Also must have capabilities in two or more of the following fields: Languages; Compilers; Operating Systems; Data Base System Design; Software Engineering; Microprocessors; Automata; Algorithms and Complexity; Data Structures; Artificial Intelligence; Pattern Recognition; Graphics; Real-time Systems. In addition to teaching duties, advancement, promotion and tenure require the doctorate in Computer Science. The Department does not have a PhD program. Qualified applicants will be selected beginning February 1, 1981 and until all positions are filled. Applications and job descriptions are available. The Department of Computer Science, California State University, Fullerton, Fullerton, CA 92634. Affirmative Action, Equal Opportunity, Title IX Employer.

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