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Project Zeus adds key research partner

Washington University professor Hugh Macdonald, Ph.D., Avis Blewett Peterson, and Russell H. Tenorio have signed an agreement with Ascom Group in Berne, Switzerland, establishing a joint research project to explore the development and deployment of ATM technology. Washington University's ATM network is called Project Zeus. The network switch was developed by Jonathan S. Turner, Ph.D., professor and chair of computer science. The network is installed at Washington University and two other locations in the St. Louis area. Project Zeus is the first ATM network architecture to be installed on a university campus and the only switching architecture with the inherent capability of broadcasting to millions of different locations. Future multimedia applications of Project Zeus include the electronic transmission of medical images from a central location to others miles away, and interactive teaching and conferencing sessions, among others.

Under the agreement, Ascom Timplex is participating in the Washington University program on several levels. It is a “Supporter” of the Washington University ATM network.

Professional interpreters for hockey players from Russia

Washington University senior Victor Sachs, left, serves as translator for left-winger Vitali Prokhovor and two other Russian players on the St. Louis Blues hockey team.

Student interpreters for hockey players from Russia

Washington University senior Victor Sachs could talk, but not for long. He had to take a pregnant Russian woman to her obstetrician for a monthly check-up. Sachs, who grew up in Moscow, served as an interpreter for American visitors to the Soviet Union from 1986-1990. Those visitors often were American performers. Now the computer science major is helping three St. Louis Blues hockey players adjust to life in America. His duties include everything from giving them tours of St. Louis and ordering them pizza to introducing them to the concept of American college life. Last year Sachs came to St. Louis to finish his college degree, after completing 3 1/2 years of study at Moscow University. His transition to American life was relatively easy, even though he had only visited the United States twice before for short periods of time. Sachs, who has absolutely no Russian accent, grew up bilingual in Moscow. Sachs’ grandparents were American communists who moved to Russia in 1925. Sachs learned English from his parents. His father grew up bilingual, learning English from his American-born parents. His mother, a native of Russia, taught English at Moscow University.

When the Blues hockey team signed three Russian players last fall, several of Sachs’ friends recommended him to Blues president Jack Quinn.

The three players, Vitali Prokhovor, Vitali Karamnov and Igor Kornev, are all about Sachs’ age and all have wives. Two of the couples have a young son and the third couple is expecting their first child in February. None of them speaks English. “They have this money in their pocket, but they have no frame of reference,” Sachs notes. “They have no idea what is cheap or expensive when it comes to renting a house or buying clothing and food.” Sachs helps them negotiate those types of transactions, though luckily, he says with a sigh of relief, his duties don’t include doing contract negotiations or traveling on the road with the team.

He did help them get driver’s licenses by arranging for them to take the written test in Russian. Sachs taught them to recognize street signs by their shapes. “The other hockey players called me their ‘baby-sitter,’” says Sachs with a smile. “(In the beginning) I was with them (the Russian players) 12 hours a day, helping them get their driver’s license. They have this money in their pocket, but they have no frame of reference.”

In this Issue...

Medical Update: Researchers apply latest ultrasound techniques to develop safer method of diagnosing kidney obstructions

Washington People: Lee N. Robins, Ph.D., University Professor of Social Science

Campus Authors: Suicide in Alcoholism is a new book by George E. Murphy, M.D., professor emeritus of psychiatry
Sobel receives Herrick Award for contributions to cardiology research

Burton Sobel, M.D., professor of medicine and director of the cardiology division at the School of Medicine, has received the prestigious 1992 James B. Herrick Award from the American Heart Association's (AHA) Council on Clinical Cardiology. The Herrick Award is given annually to recognize contributions to the advancement and practice of clinical cardiology. Sobel was selected by the AHA council.

Sobel is recognized worldwide for his innovative research on heart function, posterionic tomography, enzymes and for the clinical introduction of tissue-type plasminogen activator, or t-PA, a drug used to quickly and safely dissolve blood clots that block the coronary arteries and cause heart attacks. He has conducted extensive research on the clinical introduction of tissue-type plasminogen activator and is involved in several ongoing projects to improve their effectiveness. Early in his career, Sobel pioneered the use of the blood enzyme creatine kinase to diagnose heart attacks and to assess the extent of heart damage caused by an attack; tests for elevated levels of the enzyme are now considered the diagnostic gold standard.

He came to St. Louis from the University of California, San Diego, where he was an associate professor of medicine, director of the cardiac care unit and director of the myocardial infarction research unit. He joined the Washington University faculty as a visiting professor of cardiology and director of the cardiovascular division in 1973. He became a professor in 1975 and has been an adjunct professor of chemistry since 1979.

Sobel has received numerous honors, including the 1971 career development award from the National Institute of New England, the 1981 Hearst Research Foundation's International Recognition Award, the AHA Scientific Council's Distinguished Achievement Award and the 1987 American College of Cardiology Distinguished Scientist Award. In addition, he was named counselor for the International Society for Fibrinolysis and Thrombolysis, Clinical Research.

Latest ultrasound methods spot kidney obstructions

Researchers study heritability of schizophrenia

Researchers at the School of Medicine have received a $400,000 grant from the National Institute of Mental Health to study the heritability of schizophrenia. Steven O. Moldin, Ph.D., assistant professor of psychiatry, will evaluate 50 schizophrenic patients and three of their family members to study biological traits common to patients and their relatives who are not directly diagnosed. There was one false-positive obstruction, 11, or 79 percent, were correctly diagnosed. The ultrasound approach correctly diagnoses the obstruction in 90 percent of patients, Deyoe said. In addition, the test is not ideal for pregnant women because it exposes their fetuses to radiation and the contrast drug, he added.

Moldin and colleagues will design a urinary tract obstruction using a plain abdominal X-ray to look for kidney stones and an intravenous urogram (IVU) to assess urine flow. For an IVU, patients are injected with a contrast material and are given multiple abdominal X-rays. The contrast material produces an image of the path urine takes as it leaves each kidney and travels through tubes called ureters to the bladder. If an obstruction exists, an IVU may show the contrast agent pooling up behind the blockage, said Deyoe.

The IVU is generally quite accurate and safe, Deyoe said. But in some patients, the contrast material causes adverse reactions such as nausea, vomiting, irregular heart beat and, in extremely rare cases, death. Mild to moderate reactions affect 2 percent to 8 percent of patients; severe, life-threatening reactions occur in 0.00 to 0.1 percent of patients, Deyoe said. In addition, the test is not ideal for pregnant women because it exposes their fetuses to radiation and to the contrast drug, he added.

Researchers at the School of Medicine have received a $400,000 grant from the National Institute of Mental Health to study the heritability of schizophrenia.
Robins probes lives for answers, research

Unlike many School of Medicine researchers who gather data with test tubes and microscopes, Lee N. Robins, Ph.D., collects information by asking people questions.

On subjects from family history and arrest records to drug and sex, Robins could get all the answers she was promised that will answer some of the most personal questions.

"Everyone assumed that people would not answer those kinds of questions, but those beliefs were wrong," she says. Robins, University Professor of Social Science and director of the Program in Psychiatric Epidemiology at the School of Medicine, has spent almost 40 years talking to disaster victims, Vietnam veterans, adults who were delinquent children, and demographically selected "average" Americans. Her studies have forced her colleagues in psychiatry to rethink subjects from teen suicide to drug abuse.

"She has been the leading psychiatric epidemiologist in the country, flat out," says Leonard Eisenberg, M.D., professor of psychiatry and social medicine at Harvard Medical School. "Her work shattered many of the traditional beliefs in the field when she published her first big study 30 years ago.

Her first study eventually became the book Deviant Children Grown Up. She launched the study in the late 1950s following a series of serendipitous events. How she came to conduct the study is a famous story in the Department of Psychiatry.

Robins' husband, Eli Robins, M.D., professor emeritus and former head of psychiatry, was working with colleague Patricia O'Neal, M.D., when they uncovered a large volume of records from a historic psychiatric child guidance clinic that had opened in the 1920s. The old records were stored at Malcolm Bliss Mental Health Center, but the hospital needed more space and had decided to destroy them.

Instead, Lee Robins and O'Neal took possession, got a grant from the Foundation Fund for Research in Psychiatry and tracked down 524 patients who had been treated for psychiatric problems as children 30 years earlier. "That study provided longitudinal data for the first time ever," says Eisenberg. "They had a set of observers, the ECA study subjects. They were tested in small groups. We really like writing questions that may be unclear. Clarity is essential because Robins relies almost exclusively in the follow-up studies. "You've seen efforts to standardize diagnosis. It's a mammoth task, and I believe we have been successful to a large extent. It is the ability of Dr. Robins to coordinate such a huge project that makes possible success," he says.

Robins has received numerous awards over the years, but her greatest satisfaction comes from knowing that her data have stood up to scrutiny from her peers. Though some of her controversial conclusions have raised some eyebrows, they have not been contradicted.

Robins enjoys going back to her old studies. "I still enjoy going back to my old studies, but they don't do it for strangers. You ask the questions, and they tell you about their lives.

"People like to talk, but they prefer talking to strangers because there's nothing riding on it for them," Robins says. "We instruct our interviewers never to talk to anyone you know personally. People put on an act for those they care about, but they don't do it for strangers. You ask the questions, and they tell you about their lives.

Robins most enjoys asking questions, but she also likes the early stages of a study when the questions were put on an act for those they care about, but they don't do it for strangers. You ask the questions, and they tell you about their lives.

"People like to talk, but they prefer talking to strangers because there's nothing riding on it for them," Robins says. "We instruct our interviewers never to talk to anyone you know personally. People put on an act for those they care about, but they don't do it for strangers. You ask the questions, and they tell you about their lives.

Robins' favorite study was one she did regarding Vietnam veterans who were locally selected. "I could ask for anything, and I got it," she says. "It was the kind of power I'd never experienced. When we wanted to talk to men still in service, we could go to the Department of Defense and use the worldwide locator to see where they were stationed, so we could interview them.

Robins' list included all of the U.S. Army enlisted men who left Vietnam in September 1971. In the summer of 1972, her team interviewed about 1,000 of them. They were interviewed again after the men had been home for three years. "The men were thrilled to be interviewed. They had a story to tell," Robins recalls. The results of that study helped influence thinking about the natural history of heroin addiction.

More recently, Robins has been involved in two mammoth projects. She continues to review data and follow up on subjects interviewed in the early 1980s for the Epidemiologic Catchment Area study (ECA) hoping to discover new facts about mental illness. In that study, more than 20,000 Americans were interviewed to determine the prevalence of psychiatric illness in the general population.

"As it happened, we interviewed people for the ECA study just before the flooding and refugee problems at Times Beach (Mo.)," Robins recalls. "I worked with Dr. Elizabeth Smith, from our department, studying responses of disaster victims. Unlike previous studies, where the first contact with victims is made after a disaster has occurred, the ECA sample revealed the state of their mental health before the disaster. Then we followed up to learn whether new symptoms occurred any more often in those exposed to the disaster than in people living outside the disaster site.

Robins and Smith are now doing similar work with victims of radiation exposure. They are finding that people with prior psychiatric problems are more vulnerable to problems as a result of disasters. The primary impact seems to be on those who were not in the area when the disaster occurred. "Others get very anxious if they think that's not the same as being psychologically ill," Robins says.

Robins also is working with the World Health Organization (WHO) to translate criteria for psychiatric diagnosis into standards that can be given by lay interviewers and scored by computer. She has led an effort to develop and employ the Composite International Diagnostic Interview (CIDI), which should allow for cross-national comparisons of mental illness rates, in the same way that the ECA study projects mental illness in the U.S. population.

The CIDI has already been published in German. An English edition will soon be available, and printings in 15 other languages will follow. Norman Sartorius, M.D., Ph.D., director of the Division of Mental Health with WHO in Geneva, Switzerland, calls Robins' work a key development in efforts to standardize diagnosis. "It's a mammoth task, but I believe we have been successful to a large extent. It is the ability of Dr. Robins to coordinate such a huge project that makes possible success," he says.

Robins has received numerous awards over the years, but her greatest satisfaction comes from knowing that her data have stood up to scrutiny from her peers. Though some of her controversial conclusions have raised some eyebrows, they have not been contradicted.

Robins enjoys going back to her old studies. "I have always been sort of dragged to new projects, feeling that I haven't quite finished the old ones," she says. "I'm very pleased with what's been accomplished, but I have a drawer full of unfinished papers and unfinished projects. I have this fantasy that someday I'm going to have time to finish them. I'm not sure it will happen, but I hope so."

Jim Dryden
Lectures

Thursday, Dec. 10


Friday, Dec. 11
9 a.m. — 4:40 p.m. Dept. of Medicine presents a mini-symposium, "Frontiers in Extracellular Matrix Biology and Genetic Skin Disease," in honor of Arthur Z. Eisen, the Winifred and Emma Showman Professor of Dermatology. Erlanger Aud., McDonnell Medical Sciences Bldg.


Music

Saturday, Dec. 12
8 p.m. WU Opera presents "Mozart Scenes IIB" directed by Jolly Stewart. Karl Unrath Hall Lounge.

Sunday, Dec. 13
1 p.m. Dept. of Music presents a piano student recital performed by Kaihi Kurtzman. Steinberg Hall Aud.

Tuesday, Dec. 15
6 p.m. Dept. of Music Three String Quartet concert. Steinberg Hall Aud.

Wednesday, Dec. 16

2:30 p.m. Complex Dynamics seminar, "Lessons From Mitochondrial Enzyme Genetic Deficiencies," Arnold Li, prof., Dept. of Biochemistry and Molecular Biology, WU Dept. of Pediatrics. Room 423 McDonnell Medical Sciences Bldg.

Thursday, Dec. 17
11 a.m. Dept. of Biology and Physiology seminar, "Enterin S Phase: Initiation of Eukaryotic DNA Replication," Ioanid Li, prof., Dept. of Biochemistry and Biophysics, U. of California, San Francisco. Room 423 McDonnell Medical Sciences Bldg.

Exhibitions

December Graduates Exhibition. Through Dec. 18. Busby Gallery, Busby Hall. Hours: 10 a.m.—4 p.m. weekdays. For more info., call 935-4647.

"Midwest Modern: St. Louis Architecture and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speakers (if any) and admission, and address cost. Quality promotional photographs with descriptions are welcome. Send entries to Mark Kay, 425 Administration Bldg. Room 1070 or via fax, 805-4529. Submission forms are available by calling 935-8533.

The deadline for all entries is noon Tuesday three weeks prior to publication. Late entries will be held for the following week, if space permits every Tuesday during the school year, excluding holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-8533.
**Consortium gives seniors head start on job search**

High unemployment and a weak economy have made job-hunting a scary event for graduating seniors. But, some 73 Washington University seniors will receive a head start on their job search with the Selective Liberal Arts Consortium. A combination of profit- and non-profit organizations hold interviews, providing crucial exposure for students looking for employment. Depending on the companies’ needs, most of the interview sessions are held on campus. The consortium will take place from Jan. 4-11 in five cities — Boston, Chicago, New York City, San Francisco and Washington, D.C. It lasts for two days in New York and one day each in the other cities. Students are responsible for travel expenses.

All interviews take place in central locations in each city, making the interviewing process easier for students and employers. At each location, usually a hotel or convention center, there are waiting areas where students who have interviews later in the day can sit. Thirty minutes before their interviews, students meet their own advisors, and then move to the interviewing room.

**Marriage of traditions**

_The Turtle Island String Quartet, which is comprised of jazz, blues, classical and folk traditions, will help Edson Theatre celebrate its 20th anniversary season with performances at 8 p.m. Jan. 15 and 16._

The performances are presented by Edson’s “OVATIONS!” series. Turtle Island also presents a special performance 2 p.m. Jan. 16, as part of Edson’s “Ovation’s! for young people” series. The quartet will encourage student participation by asking such questions as “What is the difference between composed music and improvisation?” and “How is a string quartet shared with other artists?”

David Balakrishnan. The quartet is comprised of violinists Darol Anger and Katrina Wreede and Mark Summer. The group was formed in 1983 by violinists Darol Anger and John Astaire.

The quartet has released numerous recordings through Windham Hill Records. Their second album, “Metropolis,” rose to $10 for students.

Beloit 76, Washington 73; Washington 66, Whittier 53; Whittier College, earned all-tourney Men’s Basketball

Last Week: Washington 66, Whittier 53; Beloit 76; Washington 66, Whittier 53. Their second album, “Metropolis,” rose to

Turtle Island String Quartet (from left, David Balakrishnan, Darol Anger, Katrina Wreede and Mark Summer) will perform at Edson Theatre on Jan. 15 and 16.

Marriage of traditions

String quartet melds many styles

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Turtle Island String Quartet (from left, David Balakrishnan, Darol Anger, Katrina Wreede and Mark Summer) will perform at Edson Theatre on Jan. 15 and 16.
Jonathan Turner, Ph.D., professor and chair of computer science, explains the Project Zeus switch to William Y. O'Connor, president of Ascend Timeplex, and others at a recent demonstration. The demonstration followed the signing of a multi-million dollar research partnership agreement between the University and Ascend Timeplex, a worldwide networking leader.

Turner named a top 10 communications visionary

J

athan Turner, professor and chair of computer science, has been named one of the "Top 10 Visionaries" in the data networking field by Communications Week, the Manhasset, N.Y., weekly publication that is a bellwether of the communications industry. The article ran in the Oct. 26, 1992, issue of Communications Week.

Turner and nine others were nominated and selected by a vote of the magazine's staff. The professionals represent corporate, vendor, consulting and academic communities. They were honored for "the mark that they've left in the networking industry — and for where their influence will take us in the future." They are, in alphabetical order: Rino Bergonzi of United Parcel Service; Jack Blumenstein of Ardis; Jeff Case of SNMP Research Inc.; William Gates of Microsoft Corp.; Cybe Gibson of Com- 

In an accompanying article highlighting Turner's career, first at AT&T Bell Laboratories and now at Washington University, Communications Week notes: "For nearly 10 years, Jonathan Turner has been at the forefront of the ATM revolution as a technologist and an advocate. He theorized that electronics could rapidly switch fixed-pitch lengths of wires called cells. That theory has evolved into the reality of ATM, a switching protocol for public and private networks. ATM can handle huge volumes of voice, data, image and video traffic at megabit speeds. It is becoming an ideal platform for bandwidth-intensive uses and increasingly rich applications."

Turner designed the architecture for the Project Zeus ATM switch. He is cited for developing high-speed packet systems with the capability of distributing a data signal from one sender to many receivers, a key ATM feature and one of the pioneering strengths of the Washington University ATM program. Turner predicts that within a year about 50 computer terminals at Washington University will be involved with Project Zeus, and ultimately at least half of the thousands of campus computer users will be connected to the ATM system and capable of multimedia conferencing and transmitting multimedia documents. Turner came to Washington University in 1983 from AT&T Bell Laboratories. In 1988, he created the Applied Communications Research Laboratory, which has been involved in transferring ATM research to industry. Turner was named chair of the Department of Computer Science in 1991.

Agreement strengthens Project Zeus — from page 1

Advanced Networks Group's (ANG) Industrial Sponsorship Program. As a supporter of ANG, which is directed by Turner, ASCOM Timeplex will get full access to all of ANG's research efforts. In addition, Ascend Timeplex is an "Industrial Sponsor," the Zeus Program's highest level of sponsorship. Project Zeus, first demonstrated publicly in 1991, will be used in a large number of research applications across academic disciplines on the Washington campus by 1996. Applications for Project Zeus are being developed in collaboration with the Washington Uni-

versity Applied Research Laboratory, Jerome H. Cowan, director.

Ascend Timeplex will further develop Washington University research results through its own projects, applying signal-

ging and network management concepts for ATM systems, as well as developing methods for its customers to make the transition from existing technologies to ATM.

Sachs helps Russian players adjust to American life — from page 1

Mikhail Palatnik, lecturer in Russian, Sachs says the players only really know what they've overheard in the locker room — most of which, he notes, is unprintable.

"I think I'll always be hearing from them," Sachs says. After finishing his bachelor's degree, Sachs plans to pursue a master's in business administration/airline doctrine program in the United States.

University receives PRIDE Leadership Award

The St. Louis construction industry's Productivity and Responsibility In Education (PRIDE) organization presented its PRIDE! Leadership Award to Chancellor William H. Danforth. The award recognizes Washington University's role as a major private construction employer and affirms the university's commitment to PRIDE's founding principles, which include dedication to high-quality construction.
Clark, Webb win Moot Court competition

David W. Clark and James W. Webb, third-year law students, won this year’s Wiley Rutledge Moot Court Competition at the School of Law. The annual event, co-sponsored by the Fair Use Task Force and the Southwest District Court, Philadelphia; the Honorable Theodore McMillan, 8th U.S. Court of Appeals, and the School’s mock trial program, was judged by professor of law at Washington University John D. Miller.

Other members of the Moot Court team were third-year students Stacey L. Slater and Susan E. Binder, third-year student, who also received the Golden Gavel and Matthew W. Homann, third-year student, who won the Outstanding Oralist award in preliminary rounds. The Final Round High Oralist honor also went to Webb.

When college kids come home, tensions mount

Karen Levin Coburn, associate dean for faculty affairs and academic programs, has a unique perspective on how the family will handle the transition of their child from college. "One of the parents I see is the 'Going Home' workshop that she leads a "Going Home" workshop for parents. Coburn and independent study students talk with first-year students about what to expect when they go home for the first time. "The first visit home can be an intense, stressful time, says Coburn. Parents can often perceive ideas about how the family will handle the transition, while their child may see the visit as signifying newfound independence. "Often a student who seems to have matured at college regresses at home," says Coburn. "It is threatening to be back at home after being away for so long. Students change. They may try new ideas, new ways of dressing that are disconcerting to parents. They may do a lot of testing," she says. Coburn goes on to say that parents should not make college election results and America's concern for money, politics and money may become domi- nant themes during the student's first visit home. Parents may find their children newly political and anxious to get into political discussions. Coburn says that parents should be open discussions, which can be threatening, as a reaction. Instead, she says, "Parents should enjoy these discussions rather than use them as an opportunity to point out dissonant beliefs they see as threatening to the family."

Money alone, in fact, is often more of a taboo subject than families talk. But the renewed, connected with a student's lack of budgeting skills, may spur discussions of the topic. If money is tough, students may also look at old beliefs. (Oxford University Press)

For the Record contains news about a wide variety of faculty and staff scholarly and professional activities.

Dec. 10, 1992
Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding qualifications is available and may be obtained in the Office of Human Resources, Room 126, North Brookings Hall, or by calling 931-5929.

Rare Books Catalog Librarian
93036, Office Library. Requirements: MLS degree from ALA-accredited library school; motivation and organizational ability desirable; academic library or equivalent cataloging training or experience with AACR2 and LC classification; rare books cataloging training or experience; archival and manuscript cataloging experience using AMC format; ability to work with non-English languages and non-Roman alphabets; working knowledge of OCLC and NOTIS or other automated systems; reference training or user services experience; supervisory experience; knowledge of preservation procedures; knowledge of national and international rare book and graphic description desirable. Resume and three letters of recommendation required.

Department Secretary, Part-time
93074, Center for Computer Systems. Duties: Requires School of Engineering courses. Required: typing 50 wpm with accuracy. Duties: answer telephone, greet callers, maintain calendars and schedules, file maintenance, make travel arrangements, type routine correspondence.一个好的角色可以在工作中协助在计算机科学中涉及的各项活动——通过巴西计算机科学大学提供的计算机科学课程。Resume three letters of recommendation required.

Library Assistant, Part-time
93030, Library. Requirements: A minimum of two years of college experience or equivalent; library or archival experience desirable; high school graduate; ability to work well with others and to respond to the public in a helpful and courteous manner; some mechanical aptitude; a willingness to learn library automation, microcomputer and automation systems. Computer ability is a necessity; a flexible attitude and ability to work under some pressure; willingness to work occasionally weekends if necessary; ability to use an IBM PC; experience with WordPerfect and Lotus desirable. Clerical testing and three letters of recommendation required.

Department Secretary
93033, Alumni and Development Programs. Requirements: Associate's degree or equivalent; specialized secretarial or business school training desirable; must have the ability to work with high-risk patients. RN Staff Nurse, Part-time
93034, Hilltop Campus. Requirements: High school graduate; able to handle emergency situations. Hours: 20 hours a week, Tuesday-Friday — 9 a.m. to 5 p.m. Five letters of recommendation required.

Programmer
93091, Office Library. Requirements: Bachelor's degree in computer science; demonstrated knowledge of computer languages and debugging C programs; working knowledge of the UNIX environment including TCP/IP networking; experience with oriented programming technologies such as Coldfusion, ODBC and Java; experience with real-time environments (DOS and WINDOWS); experience implementing client-server applications. Resume and three letters of recommendation required.

Academic Secretary
930100, Political Science. Requirements: Bachelor's degree with a minimum of two years of college, bachelor's degree preferred; excellent interpersonal skills, grammar, ability to work on many projects simultaneously; must be able to organize, set priorities, work independently, type 40 wpm with accuracy. Clerical testing and three letters of recommendation required.

Assistant Director of Career Services
930103, School of Law. Requirements: Bachelor's degree, master's degree preferred; strong interpersonal, verbal and written communication skills; ability to maintain excellent relationships with staff, students and legal employers; experience in a local or educational setting desirable. Resume and three letters of recommendation required.

Clerical Coordinator
930106, Office of Housing. Requirements: High school graduate, some college preferred; strong organizational skills; experience in the maintenance and repair of audiovisual equipment is preferred; experience with personal computers is preferred; the ability to work flexible hours, including evenings. Clerical testing and three letters of recommendation required.

Assistant to the Director
930107, Development Services. Requirements: Associate's degree; bachelor's degree preferred; must have experience with public relations, preferably experience with word processing packages such as WordPerfect or Microsoft Word. Experience with word processing equipment and accuracy. Clerical testing and three letters of recommendation required.

Accounting Assistant
930109, School of Business. Requirements: High school graduate; ability to handle numerous tasks, make responsible decisions and meet deadlines; ability to interface with administration, faculty, students and staff on all accounting related matters; must be detail-oriented and have the ability to work without supervision; must have proficiency in the operation of office equipment; must have basic knowledge of computer systems and procedures; high clerical aptitude, typing 30 wpm with accuracy and completion of six hours of college accounting or equivalent work experience. Clerical testing and three letters of recommendation required.

Input-Output Operator, Part-time
93111, Computing Operations. Requirements: High school graduate. Duties: Enter data into computer on magnetic tapes, operate data processing machines and various EP and MVS systems, assist in the preparation of the data processing work load. Five letters of recommendation required.