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the experiment was to determine the structure of the rock beneath Tyson and blank into the ground at the Tyson Research Center last fall. The purpose of Using an instrument called "Betsy," Douglas A. Wiens, Ph.D., fires a shotgun

Geophysics class takes to the field for hands-on research experience

For students of a bygone era, a gun
called "Betsy" belonged to a fron-
tiersman in a coonskin hat named Davy Crockett. But for students in last fall's "Earth and Planetary Sciences 454, Exploration and Environmental Geo-
physics," a gun called "Betsy" was an integral part of field experiments that made environmental geophysics fun and practical.
The modern-day "Betsy," though called a gun, is actually an instrument used to fire a shotgun blank into the ground to make seismic readings. Taught by Douglas A. Wiens, Ph.D., and Roger J. Phillips, Ph.D., both professors of earth and planetary sciences in Arts and Sciences, the course is an elective in Washington University’s Environmental Studies Program in Arts and Sciences.

Exhibit captures grief over teen's death

The agony over a youth's life cut short coupled with both big and small artwork his memory inspired — forms the central theme in an upcoming Arts Connection/ City Faces exhibit organized by Bob Hansman, assistant professor of architec-
ture.

EM³ aims to turn professionals into next generation of managers

The first class in the executive master's of manufacturing management (EM³) program is indeed first-class. The 16 students enrolled in the degree program — the first in the world devel-

dered exclusively for high-potential work-
ing manufacturing professionals — have impressive credentials. Twenty percent of them already have earned a graduate-level degree, and 69 percent have engineering back-grounds. Their average age is 40. They average 17 years of professional experience.

Each course in the EM³ program, a collaboration between the John M. Olin School of Business and the School of Engineering and Applied Science, includes both business and advanced engi-
neering perspectives.

Industry leaders on the EM³ advisory board helped create the curriculum with an emphasis on maximum relevancy and value. Their message was that the next generation of managers must be not only technically and technologically sophisti-
cated but also able to work in groups and motivate others to do their best.

"EM³ is about collaboration — between business and engineering facul-
ties, between industry and the University and among the professionals who are our students," said Mark Kropf, Ph.D., academic co-director of the EM³ program, associate dean in the business school, and the Dan Brooks Professor of Operations and Manufacturing Management.

Orientation for EM³ participants was Jan. 6-10 at the Innbrook Estates Executive Conference Center in St. Louis. Regular classes begin Friday, Jan. 24.

WASHINGTON UNIVERSITY
IN ST. LOUIS
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University sets 1997-98 undergraduate tuition, fees

Undergraduate tuition and fees at Washington University will total $21,210 for the 1997-98 academic year — a 5 percent increase above the current academic year, according to Benjamin S. Sandler, treasurer of the University. This total includes a $210 required student activity fee.

Undergraduate tuition and fees for the current academic year (1996-97) total $20,200, which includes a $200 required student activity fee.

Tuition charges for graduate and profes-
sional schools and for several evening and summer programs also were announced.

Typical room and board charges for 1997-98 will be $6,516, up 4.9 percent from the current academic year's charges of $6,210. The total 1997-98 charge for undergraduate — tuition, fees and room and board — will be $27,726, which is 5 percent greater than the corresponding 1996-97 charge of $26,410.

"We strive to contain costs and to keep charges at a manageable level while working to improve the University's excellent academic pro-
grams. The financial reality is that these costs rise much faster than the Con-
sumer Price Index at virtually all institu-
tions of higher education," Sandler said.

Washington University is committed to a strong financial aid program. Nearly 60 percent of undergraduates receive some type of financial aid. The University also has payment plans to help lessen families' financial burdens. The Cost Advantage Plan allows University charges for all four years (or less) to be paid in monthly installments over as many as 10 years at competitive fixed interest rates. The advantage of this plan is that a family can lessen the effect

Continued on page 5

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In this issue ...

Sight and light

Researchers have identified a potentially key link between cataracts and exposure to the sun

Strengthening traditions

Neurosurgeon Ralph D. Dacey Jr. is drawn to the magnetic forces of medicine

Skipping through time

More than 40 years ago, Bobby Cox's image was frozen in photographic history

This is a black-and-white reproduction of Bob Hansman's woodblock print, charcoal and pastel work featuring Jermaine Roberts.

Hansman's woodblock print, charcoal and pastel work featuring Jermaine's self-portrait. The works tell a story of grief, love and healing.

"The big message of the show is that it reverses all the myths you hear about kids not caring," Hansman said. "People will drop to their knees when they see how much these kids loved Jermaine."

Distracted over Jermaine's death, Hansman was unable to create any art of his own for seven months. When he...
A link key identified between cataracts and light exposure

Four School of Medicine researchers named AAAS fellows

The researchers identified two particular explanations for light exposure. The concentration of the first, called PGE2, increased 100-fold following UVB exposure. A second, called PGF2a, was present at 30 times its former concentration after the eye was exposed to UVB. "Initially, we thought that PGE2 was our main problem because it was present in greater amounts," Andley said. "So to test that idea, we exposed eyes to high concentrations of PGE2—concentrations similar to the level that would be created by UVB exposure. But when we added the PGE2, we did not create cataracts.

In fact, they learned that PGE2 had a protective effect. When the researchers treated eyes with PGE2 and exposed them to UVB, no cataract formed. Andley suspects PGE2 may be synthesized in large amounts to protect the lens from UVB exposure. PGF2a, however, increases the severity of cataracts.

"In this model, it was clear that PGE2 was the 'good guy,'" said Bennett Becker, M.D., professor emeritus of ophthalmology and visual sciences. "When eyes exposed to UVB were treated with the prostaglandins, PGF2a prevented the development of cataracts. So PGE2 failed to do so."

Andley said there is much to learn about prostaglandin synthesis and cataract formation. "It is apparent that prostaglandins, especially PGF2a, are important in cataracts. That discovery is a cause for concern among some ophthalmologists because a derivative of PGF2a is the principal ingredient in a new glaucoma drug. Most patients with glaucoma have increased pressure in the eye. The standard treatment is to use medications to lower pressure on the eye; however, the new drug, latanoprost, now includes a derivative of PGF2a. It is very good at lowering intraocular pressure, but Becker, a pioneer in the treatment of glaucoma, worries that it might solve one problem and create another: maintaining vision.

Becker admits that most glaucoma patients are elderly and that many might develop cataracts anyway. But he said clinicians should be aware of the potential complications before starting their patients on prostaglandin therapy for glaucoma.

"Jim Dryden"
Marc R. Mayberg, M.D., professor of neurosurgery at the University of Washington School of Medicine, agreed. "The department is one of the premier academic neurosurgical and training programs," he said. "Building upon a strong tradition of basic and clinical excellence established by his predecessors, Dr. Dacey has further strengthened it by emphasizing quality in patient care, clinical research and basic-science research." The department now is third among neurosurgery departments in grants from the National Institutes of Health. Dacey also provides constant advice, support and encouragement to younger surgeons, said Howard, who also is an adjunct assistant professor of neurosurgical surgery at the University of Virginia. "He has a remarkable gift for bringing together talented people from all walks of life to form effective multidisciplinary teams to tackle the challenges of a rapidly changing health-care system. Under his leadership, the department is unquestionably at the cutting edge of neurosurgery worldwide," Howard said. Dacey's staff appreciates his terrific sense of humor, his immediate grasp of complicated issues and his ability to see the various sides of a question. He also can speak extemporaneously and artifically on almost any subject at hand. On the down side, he works much too hard and does not take enough vacation during the year to relax, according to his colleagues. Dacey also is active in his field on the national level. For many years, he was an officer of the Congress of Neurological Surgeons, and he served as president from 1994-95. He also is involved with the American Association of Surgeons and is on the editorial boards of Neurosurgery and the Journal of Neurosurgery, the two major journals in the field. Family is another important facet of Dacey's life. "I came to Washington University because this department had been an outstanding mecca for academic neurosurgeons for many years," he said. "This method of sampling a tumor should be less invasive than conventional surgery. Because magnetic forces can steer the delivery device precisely in any direction, surgeons will be able to target the device along a nonlinear path in the brain of a person with a tumor. Eventually, it might be possible to deliver neurodegenerative disorders. For example, Parkinson's disease could be treated with implants that boost production of dopamine, a neurotransmitter that is depleted in this disorder. Communication between blood vessels In his basic research in collaboration with H. Dietrich, Ph.D., research associate in neurosurgery, Dacey studies interactions between the endothelial cells and smooth muscle cells that make up the walls of cerebral vessels. The researchers are interested in small vessels in the brain that redirect the flow of blood and oxygen to a specific area of the brain so that the cerebral cortex becomes active. This differential blood flow is detected by the positron emission tomography (PET) scanner, which converts it into a map of the brain. The MSS also forms the basis of functional magnetic resonance imaging, the latest tool for studying brain activity. Using the experimental system Dacey developed in Virginia, the researchers are studying the cellular and molecular mechanisms that allow individual blood vessels to instantaneously change their diameters and permeability in response to changes in the metabolism of nearby neurons. "We recently found that responses of blood vessels deep in the cortex seem to be integrated over the length of a vessel," Dacey explained. "Moreover, these responses determine how blood vessels upstream regulate their diameters. That kind of communication between blood vessels in the brain has not really been described before." A four-year grant from the National Institute of Neurological Disorders and Stroke supports this work. The funding recently was renewed for another four years. Dacey has been a neurosurgeon long enough to know that basic research translates into better patient care. "The challenge to extend some of these findings into the clinical environment is daunting," he said. "For example, advances in imaging the brain and spinal cord are allowing us to do much more precise work on anterior and posterior structures. Eventually, we hope our basic research on blood vessels will lead to better treatments for vascular disorders such as aneurysms and tumors." Dacey also will continue his department's efforts to develop new methods for treating brain injuries, spinal deformities, aneurysms, arteriovenous malformations and tumors. "Continued support of the fine interactions between the neurosurgical and training programs is important to the future of Medicine is also a priority," he added, "because basic science has so much to contribute to patient care." I feel privileged to work at Washington University, where the faculty, research and facilities are among the best in the world." — Linda Sage
Postmodern writer Martin Amis to deliver Assembly Series lecture

British novelist Martin Amis will deliver the Neureuther Library Lecture as part of the Assembly Series on Monday, Jan. 27, at 7:30 p.m. in the Virginia School of Architecture's Steinberg Hall Auditorium. Solomon is known for his award-winning instrumental compositions and his award-winning teaching. He has paid their rent, bought them food and clothing, and once took them to a restaurant and bought them dinner. He has been the youths' spiritual leader, their mourner, their friend, and their mentor. The recital is free and open to the public, and the audience is invited to stay for dinner after the recital at the nearby Avis Blewett Professor of Music. The public, is titled "Iron John, Robert Bly, and the Whithread Book of the Year, an annual award given to the British or Irish resident for outstanding writing. Amis has served as fiction and poetry editor at The Times Literary Supplement and as an essay writer at the New Statesman — both British publications. He has contributed to such publications as The New York Times, Vanity Fair and The New Yorker. "Mayors have great influence on the physical environment of their cities." — Cynthia Weese

City design focus of mayors' institute

The School of Architecture again will host the Mayors' Institute on City Design, which provides a closed forum for invited mayors to discuss city design strategies with architects and designers. Sponsored by the National Endowment for the Arts (NEA), the institute is being held from Thursday, Jan. 23, to Saturday, Jan. 25. This is the fourth year the architecture school; Mara Minarik, John Hol, institute director and visiting assistant professor of architecture; noted that Mayors are the focus of the institute because they are uniquely situated to be powerful advocates for good design in their communities. The institute serves as a vehicle for providing support and resources to mayors in the involvement of mayors in city design, and its aim is to have a positive influence on the livability of American communities.

Weese is a principal architect and principal with Michael Willis & Partners in Miami, Fla., will give a short presentation focusing on traditional building techniques. Members of the University community participating in the institute include Professor Peter Kading, an architecture assistant professor of architecture, an attorney specializing in development and a partner at the Stolar Partnership; 3 St. Louis; Thomas L. Thompson, professor of architecture; Michael Willis, a University alum-

Maconaldos to perform in 'Vienna Fes' recital

The music of Franz Schubert and Beethoven will be celebrated in the yearlong "Vienna Febt 97" will be heard in two recitals at 3 p.m. Sunday, Jan. 26, in Steinberg Hall Auditorium. Celine Feld Maconald, head of the string program in the Department of Music in Arts and Sciences, will perform works originally composed for other instruments. She will be accompanied by pianist Hugh Maconald, Ph.D., the Avis Blewett Professor of Music at Washington University. The program includes "Arpeggione" Sonata in D major, Op. 136, of Schubert; Sonata in D major, Op. 78, by Brahms; Hungarian Dance No. 3 in F minor by Brahms; and two piano pieces by Schubert and Faure. The recital is free and open to the public.

For more information, call (314) 933-5581.
Bobby Cox skipped her way to 15 minutes of fame

Paperculture icon Andy Warhol said "we all have it coming to us"—15 minutes of fame. But when Warhol made that statement, he couldn’t have had in mind someone like Bobby Cox, wife of Jerome R. Cox Jr., Sc.D., the Haury B. and Adeleade G. Welge Professor of Computer Science.

In 1962, Bobby Cox performed a feat in less than three minutes that brought her an anonymous sort of fame that has endured for more than four decades. The stunning, sequential image of her as a young woman skipping rope is part of a photographic legacy that occupies a prevailing niche in American popular culture.

The photograph—taken by the late engineering photographer Harold Edgerton—and others by him were on display at The Saint Louis Art Museum recently. The museum holds 18 Edgerton photographs donated by the Harold and Esther Edgerton Foundation and others from a 1993 gift of Mr. and Mrs. Charles F. Turner.

In the winter of 1952, the newly married Bobby Cox was Edgerton’s secretary at the Massachusetts Institute of Technology (MIT). Edgerton, who was an electrical engineering professor there, asked her if she would help him with a photographic demonstration he was planning for a class.

All she had to do was skip some rope.

There were a few minor drawbacks, however. She would have to perform the simple athletic task in a crowded lecture hall in pitch darkness across a series of black-papered laboratory tables. The darkness was necessary to use the pulsating strobe lighting to create a stop-action effect when it flashed.

To prepare for the demonstration, Bobby Cox took only one practice run with the lights on before the real thing with the lights off.

“I only skipped across those tables once and had no idea at the time that I was doing anything other than helping my boss,” said Bobby Cox.

Edgerton used pulsating strobe light to create the sequential images in the photograph, which is titled “Moving Skip Rope.”

During the demonstration, the technique Edgerton used while working as a secretary in MIT’s Department of Electrical Engineering when Edgerton asked her to be his secretary. She waited until after her wedding (Edgerton photographed the event) to accept the job, which she did from Niagara Falls.

“I worked for him for two years, up until our first child was born,” Bobby Cox recalled. “He was an excellent boss, and a mentor, has such as Jacques Cousin, who collabor-ated with him on underwater photog-raphy.”

Jerry Cox and Donald L. Snyder, Ph.D., the Samuel C. Sachs Professor of Electrical Engineering, were influential in the revolution Edgerton’s receiving an honorary degree from Washington University in 1979.

Edgerton, who died in 1990, was highly regarded for his engineering prowess. Combining darkness, speed, timing and light, he invented strobe lighting to photo-graph the motions of rotating machines. While the technique had many industrial and technological uses, Edgerton quickly saw that his discovery was a springboard to illustrating previously uncaptured motions or phenomena that could not be followed by the human eye.

Edgerton’s photographs—depicting everything from a bullet slicing through a playing card, to the “milk coronet” created by a drop of milk in a bowl, to the first-ever image of an atomic detonation—gained a foothold in the American consciousness. The picture of Bobby Cox skipping rope became a staple of prime Edgerton photographs and has been shown in countless museums, many photography books, The New York Times and revised editions of Edgerton’s classic 1936 book “Flash.”

“Bobby Cox photo—titled ‘Moving Skip Rope’—with wonder and nostalgia. ‘We were at the museum and a young man was looking at the picture, and I couldn’t help saying, rather awkwardly, ‘That’s me over there,’ Bobby Cox said. ‘He looked at me and said, ‘I can’t believe it.’ Well, sometimes I can’t believe it either. When I did the demonstration, I never gave it a thought that I’d even see the picture. Shooting images was something ‘Doc’ did all the time. It’s a con-tinuing amazement to us and really something that the picture has a home in St. Louis,” Tony Fitzpatrick.

The recent exhibit at the art museum isn’t the first time this Edgerton photograph has been displayed in St. Louis. About 20 years ago, the photograph and others were on tour, and they were displayed at the old St. Louis Center at Oak Knoll,” Jerry Cox said.

Our youngest son, Randy, was 10 or 11 and asked us, ‘What’s Nancy doing in that picture?’ He thought the girl was his sister because Nancy then was about the age of her mother when she did the demonstra-

Outlets at (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

The following incidents were reported to the University Police Department from Jan. 13-17. Readers with informa-

—A student returning from semester break discovered that, between Dec. 19 and Jan. 13, a bicycle that was locked to a bike rack on the north side of Dighten Residence Hall was stolen. The estimated value is $400.

Jan. 15

3:15 p.m. — A contract snow-removal company reported striking a parked vehicle, causing minor damage, while removing snow from a parking lot near Simon Hall.

Marce Cunningham brings unique dance to Edison Theatre for special performances

Marce Cunningham, one of the 20th century’s great visionary dance/choreographers, will bring his remarkable company to Edison Theatre from Jan. 31 to Feb. 2 for a series of performances celebrating 44 years of revolutionary dance.

Cunningham and his company of 16 dancers — renowned for their physical beauty and dancing prowess — will mount their Edison Theatre program as a”: “Special Event” of the “OVATION!” series. The event is co-sponsored by Dance St. Louis.

At 8 p.m. Jan. 31 and at 2 p.m. Feb. 2, the company will perform three recent works: “CRW/DSPCR” (1993), “Doubletoss” (1993) and “Rondo” (1996). At 8 p.m. Feb. 1, Cunningham himself will dance with his company in a performance titled “Events.” A 90-minute collage of bits of previous dances as well as new material imag-ined just for the St. Louis performance.

Cunningham has been sending shock waves through the dance world for more than 40 years with works that abandon traditional dance form and structure in favor of a radically new dance vocabulary. He started as a soloist with the Martha Graham Dance Company and performed with the company until 1944. He formed his own company in 1953 as a reaction against the emotional dance dramas created by Graham and other leading choreographers of the time. He joined minimalist composer John Cage and other avant-garde artists in cutting the arts away from the organizing principles of cause and effect, tension and release. He outraged the dance establishment with works that explored notions of randomness — works sometimes deter-mined by the toss of a coin. Music, lighting and costumes might be chosen without any reference to the dance to or the dancer. The audience was freed from precon-cieved ideas about what was happening.

More than 200 dances and 40 years later, Cunningham, now 77, still has the power to surprise, provoke and inspire. Using a computer program to discover human movements never before imag-ined, Cunningham creates works that derive inspiration from and provide commentary on the digitized language of modern society.

A critic for the Financial Times of London writes of Cunningham’s work, “Though its basic nature has probably changed little since the 1950s and 1960s, it remains more profoundly avant-garde than any experimental work being created by new dance-makers.”

Tickets are $25 per person with no discount. Tickets are available at the Edison Theatre Box Office at (314) 935-6543 and at all MetroTix outlets at (314) 534-1111.
For The Record contains news about a wide variety of faculty, staff and student scholarly professional activities.

Of note

R. Keith Sawyer, Ph.D., assistant professor of education in Arts and Sciences, received the 1996 Maryland Prize for an article titled "The Semiotics of Improvisation: The Pragmatics of Musical and Verbal Performance." A national jury selects one article each year from the journal Semiotica as its prize winner.

Speaking of

Joshua R. Sanes, Ph.D., professor of anatomy and neurobiology recently

Matheson creates comparative literature fund

After retiring last spring from the Washington University, William H. Matheson, Ph.D., professor emeritus of comparative literature in Arts and Sciences, created it to support his discipline and to honor a colleague, the late Lucille Dieckmann.

The Dieckmann-Matheson Fund for the Support of Comparative Literature will provide support for students in their study of comparative literature both on campus and during research and language study elsewhere, said Randolph D. Pope, Ph.D., professor of Spanish and chair of the Comparative Literature Program in Arts and Sciences.

"Because of the special nature of comparative literature in which students are expected to be familiar with at least two other cultures besides their own, they must use the summers to travel abroad and study foreign languages," the main goal of this fund will be to help graduate students in this professional development," Pope said. "This is in line with the interest that Bill Matheson has always had in learning foreign languages and cultivating the accomplishments of other cultures."

The fund also keeps alive the name of Dieckmann, who was Washington University's first professor of comparative literature. Dieckmann, who died in 1994 at age 91, was a native of Frankfurt, Germany. She earned a doctoral degree in 1927 from the University of Heidelberg and joined Washington in 1944. Specializing in 18th- and 19th-century German literature, Dieckmann was also an outstanding comparatist. After her retirement in 1971, she continued to publish a number of studies, critical editions and translations while teaching occasionally.

Matheson also has used his creative energies to write poetry and create pottery. His most recent book, "Sufferings of Light: Selected Poems," is a limited edition containing poems Matheson wrote during the last two decades. A photograph of one of his ceramic works appears on the fund's Web site.

Matheson became a professor of comparative literature at Washington University in 1970. Previously, he had taught at Yale, Tufts and Brandeis universities and at his alma mater, the University of Michigan, from which he earned a bachelor's degree in 1951, a master's degree in 1952 and a doctoral degree in 1962, all in French.

He regularly has contributed to the annual holiday pottery sale at the Craft Alliance in University City. His poems have been widely published — locally in River Styx and Washington Review and more widely in annuals and small presses. He also has written and in a series of collections titled Anthology, published by the University of Iowa Press.

For more information about the fund, call Cynthia Martin at (314) 935-4671.
The following is a partial list of positions available at the Hilltop Campus. Information regarding these and other positions may be obtained from the Washington University Human Resources, Room 102 West Campus Center.

Financial Operations Supervisor 970134. Housing/Residential Life. Responsible for the operations and supervision of a group of individuals with a major in accounting; three to five years accounting experience; two years supervisory experience; knowledge of accounting principles and/or majors of business administration preferred; experience with FOCUS preferred; excellent written and oral communication skills; strong initiative and drive by challenge; ability to meet deadlines; understanding of internal controls and various financial regulations; ability to research and interpret accounting and other technical issues; ability to streamline/automate transaction processing and provide support to a highly confidential informational response.

Application required.

Programmer/Analyst II 970151. Computing and Communications. Requires Bachelor's degree in computer science and/or equivalent experience and education; excellent knowledge of UNIX; excellent programming skills; ability to work independently but with aggressive deadlines; willingness to work in an environment of change; demonstrated interpersonal and communication skills; ability to work with individuals in a variety of technical fields; maintain the security of confidential information; previous university work experience desirable. Application required.

Administrative Assistant, Career Services 970155. Requires Bachelor's degree in administrative experience and education and legal setting preferred; excellent written and oral communication skills; ability to work well under pressure, independently and to exercise sound judgment. Application required.

Public-Service Registrar 970163. University Registrar. Requires 30 hours of college credits with a college major; ability to work well with people in a public service environment; ability to work in a complex network of computer systems.

University Webmaster 970159. Requires Bachelor's degree plus two or more years experience creating and maintaining sophisticated Web sites; thorough working knowledge of Web technology including HTML, forms design, server-side scripting using Visual Basic, CGI, and Perl, image and graphics software: experienced with major file upload tools, image-processing software and Web authoring tools; familiar with basic graphic files, and technical limitations of different Web platforms and Web-enabled software.

University Housing. Requires Web page design and development experience, ability to handle various accounting system applications and solutions; software applications and general software; excellent knowledge of HTML; ability to streamline/automate transaction processing and provide support to a highly confidential informational response.

Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in positions which transfer to the new University of Washington Medical School (at 307) 422-7522 to receive an application.

Applying through University of Washington or the Health史上人 blood. Notable exceptions to the human resources office. Please call 307-422-7521 for information regarding application procedures. Application must be submitted to the Human Resources Office in the building at Room C205 Box 6007, S. L. 60110. Please note that the medical school does not check online information for veracity and the office strongly encourages applicants to provide information to the department in place of other online resources.

Requirements include: proof of United States citizenship or permanent residency in the United States or Canada; must be fluent in English; and have high school equivalency and two years of technical or professional training. Alternatively, candidates with associate's degree; knowledge and proficiency with FOCUS preferred; excellent communication skills; and accountability for handling various accounting system applications and solutions; software applications and general software; excellent knowledge of HTML; ability to streamline/automate transaction processing and provide support to a highly confidential informational response.

Application required.

Technician: Dr. Med/Clin/Pharm III 970100. Computing and Communications. Requires at least two years of experience in high school graduation and/or equivalent experience. Demonstrate interpersonal and communication skills; ability to work with individuals in a variety of technical fields; maintain the security of confidential information; previous university work experience desirable. Application required.

Medical Assistant II 970105. Medical Operations. Requires: candidate's degree; experience in the medical field and of 10 years in the health services industry; knowledge of medical terminology; excellent knowledge of high-level programming languages; ability to work independently and with aggressive deadlines; willingness to work in an environment of change; demonstrated interpersonal and communication skills; ability to communicate clearly with patients, doctors and staff; written and oral communication skills; ability to read and write in English; excellent knowledge of medical terminology; ability to do basic research; responsibility to maintain the security of confidential information; previous university work experience desirable. Application required.

Women's Medical Program 12/96

A new position will be created in the Program to provide support to the department; placing invoices; balancing ledgers; entering data; processes; processing new employee documents; and assisting with post-graduate procedures.

Program Analyst II 970200. General Internal Medicine. Requires: bachelor's degree; master's degree; experience in the medical field; of 10 years in the health services industry; knowledge of medical terminology; excellent knowledge of high-level programming languages; ability to work independently and with aggressive deadlines; willingness to work in an environment of change; demonstrated interpersonal and communication skills; ability to communicate clearly with patients, doctors and staff; written and oral communication skills; ability to read and write in English; excellent knowledge of medical terminology; ability to do basic research; responsibility to maintain the security of confidential information; previous university work experience desirable. Application required.

Washington University is an equal opportunity and affirmative action employer. Washington University is committed to equality of opportunity in all education, and employment programs. It is the university's policy to comply with applicable laws regarding non-discrimination and affirmative action in regards to race, color, sex, sexual orientation, national origin, age, religion, or disability. Women, members of minority groups, and persons with disabilities are encouraged to apply.

Services available at the School of Medicine/Hilltop/West Campus can be accessed via the World Wide Web at http://www.wumc.washington.edu/.