Researchers identify 8,000-year-old human remains

A group of researchers led by Patty Jo Watson, Ph.D., professor of anthropology, recently identified the remains of a man who died 8,000 years ago in a Colorado cave. The findings were detailed by the research team, led archaeologist Watson and co-author Cyndi Mosch. They gave their report at the First Biennial Rocky Mountain Anthropology conference in Jackson, Wyo., on Saturday, Oct. 2.

The human remains are among the oldest found in North America, and are the oldest discovered above 10,000 feet. Watson, an internationally recognized expert on cave archaeology, also says it is the only example she knows about worldwide of a human found in a cave at that elevation.

Two radiocarbon dates place the remains at very close to 8,000 years old. The skeleton is twice as old as most Egyptian mummies and almost twice as old as the famous corpse, commonly known as the Ice Man, found during the summer of 1991 in the southern Alps.

Researchers have determined that the 8,000-year-old human remains belong to a 35- to 40-year-old mountain climber who explored the cave with a torch. The skeleton was the subject of an exhaustive study, partially funded by the U.S. Forest Service and the Cave Research Foundation. Besides Watson, two other Washington University researchers participated in the project: David V. Lynch, Ph.D., assistant professor of anthropology, and Charles F. Hildebolt, D.D.S., associate professor of radiology.

Student volunteers needed for U.S.-NIS business conference

Student volunteers are needed to help with an Oct. 16 forum on the New Independent States of the former Soviet Union (NIS). At the invitation of President Bill Clinton, Joseph Duffy, director of the U.S. Information Agency, and House Majority Leader Richard Gephardt, D-Mo., Newt Gingrich, Gerald Corrigan, chairman of the Student Experience Cluster. The cluster is a spinoff of the University Management Team, which was formed in November 1992 to examine ways to improve services while reducing costs at Washington. The findings were based on comments from four student focus groups that the cluster organized last semester.

In addition to the Student Experience Cluster, there are clusters to address issues of administrative services and admission of prospective students. The University Management Team meets twice a month and most clusters meet weekly. The team allows administrators to work more collaboratively across departmental lines to accomplish goals. "We did it during the debate. We're doing it again for the USA (Information Agency) conference. And we're doing it through the University Management Team and the groups that have evolved from it," said Karen Levin Coburn, associate dean for student development. Coburn co-leads the cluster with Shirley Baker, dean of the Student Experience Cluster.

"We've all been trying to make improvements. Now we're making them all at the same time," said George Urru, a member of the Student Experience Cluster and director of the Housing and Food Service. "The Student Experience Cluster's charge is to improve services at the request of current students," said Coburn. "We are going about this in three ways. The first is to collect information from students, to

"It was thought until recently that ancient people were a lot smarter and stronger than many people previously thought." - Patty Jo Watson, Ph.D.

Patty Jo Watson, Ph.D., professor of anthropology, recently led a multidisciplinary team of researchers analyzing the 8,000-year-old remains of a man found in a high-elevation Colorado cave. She is pictured here examining a discovery in the cramped quarters of a Kentucky cave during a previous expedition.

Student Experience Cluster makes recommendations

Continued on page 6

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WASHINGTON UNIVERSITY IN ST. LOUIS
Vol. 18 No. 7   Oct. 7, 1993

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Century-old notion needs revision: Brain’s map of the body is off course

Scientists at the School of Medicine say the brain’s map of the body as traditionally thought. This idea could lead to revision of a century-old notion about how the motor cortex is organized.

Instead of delegating control of one particular finger to a specific strip of neurons, the researchers found that the brain orchestrates finger movement by allowing neurons from all over the motor cortex hand area to help move each finger. This evidence refutes the long-standing belief that each finger is operated by a discrete set of neurons — an index finger strip, a ring finger strip and so forth — in the motor cortex hand area. When a person raises an index finger, the old theory suggests that only those nerve cells in the “index finger strip” fire.

A paper in the July 23, 1993, issue of Science proposes a more flexible hypothesis. According to the article, experiments on monkeys show there is no single area of the motor cortex devoted to each finger or thumb. Rather, there is just one motor cortex hand area, and finger and thumb movement is generated by a network of neurons spread throughout the cortex. “The motor cortex is a melting pot rather than there being discrete neighborhoods devoted to particular fingers,” says the paper’s lead author, Marc H. Schieber, M.D., Ph.D., an assistant professor of neurology and neurosurgery.

The implications of this finding could be important for the neurology and rehabilitation fields. It could mean that people who have a brain injury that affects part of the hand area may be able to train remaining areas of the motor cortex to take over tasks formerly handled by the damaged area. Schieber says that if these results were unexpected, and they will further contribute to basic knowledge of how finger movement is generated.

The Penfield Method

Schieber, like many researchers before him, learned a theory of the motor cortical organization based mainly on the celebrated work of Drs. Hughlings Jackson (circa 1860) and Wilder Penfield (circa 1950). Penfield and their colleagues found that the brain orchestrates finger movement by allowing neurons from all over the motor cortex hand area to help move each finger. This setup allows Schieber to test for single neurons that control whenthe index or thumb is moved. Surprisingly, the experiments described in Science showed that single neurons could be active when the monkey was moving just one but many different fingers. “During any particular finger movement there are neurons active over the whole hand area,” Schieber says.

This finding was at odds with what Schieber and numerous other scientists had learned. He decided to review the data that led Sherrington, Penfield and Woolsey to propose the theory that the motor cortex contains a nearly linear representation of the human body. To his surprise, Schieber found that his own data were not unlike the data collected by the giant scientist in the past. “When you get right down to the nitty gritty, it says the same thing,” Schieber says. “We were thinking about the data in the wrong way because it was so attractive and easy to think about it in that way.”

Women’s mental health network opens

A new mental health program specifically for women has opened at the School of Medicine, as part of this program, the Women’s Mental Health Network at Washington University, offers a multidisciplinary approach to help women with psychological and psychiatric problems. By offering services from numerous health professionals, the network provides more varied treatment options. “Very often physicians refer patients only to another physician,” Prlob says. “This means that if a woman doesn’t want to see a psychiatrist, those traditional referrals can actually be a barrier to her getting help.” Pribor explains. “We think that having physicians, psychologists and social workers in a single group will allow women to get connected to a network that can offer whatever they may need.”

The network provides special services to women on both an inpatient and outpatient basis. For more information, call 362-0556.
I find students today want to pursue aggressively the different components of the environment.

Everett Shock, Ph.D., associate professor of earth and planetary sciences, works with senior Patty DuBois.

Shock earned his bachelor's degree in earth sciences from the University of California, Santa Cruz, in 1978. After working two years for the U.S. Geological Survey, he entered graduate school in Berkeley planning to pursue a traditional course in geology, but then found himself leaning toward geochemistry and eventually the theoretical geochemistry he researches today. In the late 1980s, Shock became intrigued by a paper in hydrothermal geochemistry, sparked by discoveries in the mid-1970s of mysterious sea clams, tubeworms and other previously unknown odd species found nearly two miles below sea level near Pacific Ocean hot springs and "black smokers," sea-floor chimneys that spew magma-heated water from the Earth's mantle. The creatures were found by marine scientists in subterranean chambers, the primary food sources for these species must be chemosynthetic (the reaction of chemicals without sunlight) bacteria. But they had no clear proof of what temperature range the microorganisms could live in because these newly found microorganisms were difficult to collect and even more difficult to grow in the lab.

Then, in the early 1980s, scuba-diving microbiologists confirmed the existence of bacteria in hot springs below seafloor temperatures as high as 150 degrees C. To research the problem, Shock found himself at a distinct disadvantage. He had only a sparse background in microbiology. That meant he was at a disadvantage. He had to do the calling. He had to do the recruiting. He had to do the reaching out to the media for the story on the origin of life. While Shock

Tony Fitzpatrick

Washington People

"I find students today want to pursue aggressively the different components of the environment."

Shock, multifaceted environmentalist

Since science is awash with acronyms. Try NASA (National Aeronautics and Space Administration), NOAA (National Oceanic and Atmospheric Administration), and GISS (Geophysical Fluid Dynamics Laboratory). Acronyms are so much the rage in science these days that the natural tendency of many is to name a lab or project with an appallingly dashing acronym.

In a complex world, shock, for example, looks like a doctor or engineer who is newly appointed director of environmental studies, brooded over what to call his research group and selected the label GEOPIG, short for Geophysical Environmental Process Investigations. GEOPIG scientists go where, as intoned before "from posters to mugs to games to new diaries into the walls and tables.

"We have a certain dilemma," says Shock, "as a scientist. Should you name your lab, as is traditional for a laboratory or project with an acronym? The typical situation is, you get a research grant on an environmental problem, and your colleagues say, 'Great. How does that work into my schedule?' And you say, 'I don't know. Let's go check.' "

"When you see the otter covered with oil on TV, you can see clearly that the poor creature is going to die from this, it's really sad," Shock says. "But the public might think that they can deal with this entire problem strictly from a biological viewpoint. They have to explore what happens to the oil in the soil by Deco Polydecom, where does it go, what

"Obviously, these people should be communicating with each other. We say, 'So, we have the events as a way to keep everyone talking to each other, to boost the environment.' Most of the time, my research group includes undergraduates, who seem to enjoy the work and the atmosphere, some graduate students, a couple of postdocs and some engineers. We think we do a pretty good job. Every time we meet each week to keep everyone informed."

Shock says that the idea of putting his group in the public eye came from the University of California, Berkeley, in 1987, considers himself a staunch environmentalist. But the environments he explores are generally hidden environments. Beneath the ground, for instance, organic compounds (a wide range of carbon-based chemicals) react to pressure and heat and generate oil and gas.

The essence of their work is wrapped up in thermodynamic calculations, though, is a reflection of Shock's engagingly warm, accessible, GEOPIG scientists go where, as intoned before "from posters to mugs to games to new diaries into the walls and tables.

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**Calendar**

**Oct. 7-16**

**Exhibitions**

"The Crossing of Borders and the Creation of Worlds: The Art of Howard Jacobs," Oct. 10, 4-7 p.m., Gall of Art, upper and lower galleries, Steinberg Hall. Hours: 10 a.m.-5 p.m., weekdays; 1-5 p.m. weekends.

"Shadow Dancing." Through Oct. 10. Rich O'Donnell, director, of the WU electronic music studio, created the exhibit. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

**Films**

Thursday, Oct. 7

7 p.m. Filmboard Classic Series. Chaplin Shorts: "The Floorwalker." "One A.M." "The Pawnshop." "The Rink." Room 2918 South Building. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

**Lectures**

Thursday, Oct. 7


**Wednesday, Oct. 13**

7:30 a.m. Obstetrics and Gynecology Grand Rounds. "Pelvic Adhesions." Peter VanDorsten, chief resident, Department of Obstetrics and Gynecology. Clapton Aud., 4950 Children's Place.


**Friday, Oct. 8**


Sunday, Oct. 10


**Monday, Oct. 11**

8 p.m. Computer Concert. "Saving Daylight Time." A program of music for voice and piano, will feature works of Peter Lieberson, David Patterson, John Phillips and Robert Wykes. Steinberg Hall Aud.

**Performances**

Friday, Oct. 8

8:30 p.m. Benefit special event. Sansuk Jaka performs "Shijima: The Darkness Calms Down in Space." At Oct. 11, 6 p.m., and Oct. 10 and 12 p.m. in Edison Theatre. Cost: $30 for the general public; $25 for senior citizens and WU faculty staff and students. For ticket info., call 935-6390.

Wednesday, Oct. 13

8:30 p.m. "OAVTIONS!" event. The Flying Keyboards perform "Juggie and Hyde." At Oct. 14, 5 p.m. Edison Theatre. Cost: $20 for the general public; $15 for seniors and WU faculty and staff; $10 for students.

8 p.m. Performing Arts Department production. "Mad Forest." At Oct. 15, 8 p.m. in Dowling Studio. Room 208 Mallinckrodt Center. Cost: $7 for the general public; $5 for seniors and WU Faculty, staff and students.
school. Panel discussion involving Marche Hart, co-director, Program for the Humanities in Medicine; John P. Ackerson, A. V. Brusch Professor of Surgery, Dept. of Medicine; Harvey R. Cohen, Harris B. Spodker Professor and head, Dept. of Obstetrics and Gynecology; Perotin R. Schemberg, prof. and head, Dept. of Obstetrics and Gynecology; Peter M. Shackleford, prof., Dept. of Pediatrics; Susan E. Mack, professor, and head, Dept. of Surgery. Moore Aud., 4580 Scott Ave.

3:15 p.m. International student resource group tour. Tour of University Science Research Center, Chestnutfield, Mo. Meet at 3:15 p.m. in Murie Commons Lower level. For more info., see 935-5910.

Monday, Oct. 11
8 p.m. Poetry reading. Author Yasef Komskayas reads from his works. (Booksigning will follow) Edison Theater.

Wednesday, Oct. 13
1993 Fall World Music Festival. (Through Oct. 15.) Cynthia Weene, dean of the School of Architecture, will introduce the speaker. The $225 registration fee includes two receptions, workshops, meals, and a banquet. Field trip and an introductory membership to The Music Society. For more info., call 645-5888.

5:30-7 p.m. University College career counseling. "Preparing for the job market: What is English," Ellen Krout Levine, coordinator of career programs. Room 30 January Hall. For more info. and to register, call 935-6788.

8 p.m. Poetry reading. Carl Phillips, author of "In the Blood." Washington University Mallinckrodt Center. For more info., call 935-6788.

8 p.m. Mid-American Conference on Hispanic Literatures annual meeting. "Women Writing in Mexico and Latin America," Elena Poniatowska, Mexican writer, historian, and journalist, and has edited many books of photographs and interviews. "Kolektivo" by Armistead, soprano, and Perkins on the piano. Cost: $50. More info. and reservations, call 935-5881.

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Friday, Oct. 15
The Washington University Depart- ment of Music will present the works of contemporary composers at the Stix International House on Monday, Oct. 11, in Steinberg Hall audi- torium. The works have been or are currently being published with the Contemporary Music Press. "Five Days, Five Composers," performed by soprano Christine Armstain and pianist Timothy McFaul and Patterson. Patterson studied composition at the Washington University Conservatory of Music and currently teaches at the University of Massachusetts, Boston.

"A Latinx Heart's "Three De- light," performed by McFaul on the piano. "Lieberman's music is gaining international attention when his Piano Con- certo was performed and recorded by Seiji Ozawa and the Boston Symphony Orches- tra for the orchestra's centennial celebrations. He is composer-in-residence for the San Francisco Symphony and the New York Philharmonic.

"John Perkins' "Four De- light," performed by violinist Silvia Icovic and Perkins on the piano. Perkins, a St. Louis native, has received awards and commissions from the American Academy and Liverpool's new "Carnival," and Blackwood, and the Smithsonian Institute in Washington, D.C. Perkins is on the Washington University faculty.

"Robert Wykes' "Fantasy No. 2," performed by Wykes and soprano. "And the White-tailed Kite," performed by Armstain, soprano, and Perkins on the piano. Wykes is best known for several orchestral works, including the "Modoc" Na- nocarta Orchestra, the St. Louis Sym- phony and the Detroit Symphony. Wykes was professor of music at Washington University until 1984, when he was named to the position to form the university's composition and performance program. For more information, call 935-5881.

NIS conference --- from page 1
Business Exchanges and Training." Then, from 9:30-10 a.m., "Investor Climate and Business Potential in the NIS" will be discussed. At noon, the keynote presenta- tion will be held. "Partnerships for the Future" will be the final discussion topic from 1:45-4:45.

Volunteer opportunities
A wide variety of student volunteer opportu- nities are available. Sign-up forms may be obtained at the Office of Neighbor- top Campus) Student Union Office, Mall in Social Science Library, all campus offices, the Assembly Service Office, Student Union Office, the Medical Student Development Office, Medical Sciences Building, Room 100 (see Kathy Stircup, Fishburn Hall, Avenue Administrative Services Center for volunteer information, call Trudi Spurlock, 935-4351. Phone: 935-5040 or Jean Milligan at 935-6830.

Student tickets
A considerable number of student tickets may be available for the Olympics. For infor- mation on the distribution system for obtaining tickets will be published soon as it is available. For current information, call the Forum Hotline at 935-4355.


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Author Michael Dorris to lecture
National Book Award winner Michael Dorris and author of the best seller "Yellow Raft in Blue Water" will deliver the Woman's Club Lecture at 11 a.m. Wednesday, Oct. 13, in Graham Chapel. His lecture, "The Truth in Fiction," is part of the Assembly Series.

An informal discussion with Dorris will take place at 2 p.m. Oct. 11 in Room 116 Brown Hall at the George Warren Brown School of Social Work. Both events are free and open to the public.

Dorris is a descendant of the Modoc nation, holds a master's degree in anthropology from Yale University. An adjunct professor at Dartmouth College, he is on the board of a number of small organizations. His novel for young readers, "Lyric Variations," was a Newbery Honor Book. His novel for young readers, "Lyric Variations," was a Newbery Honor Book.

"The Broken Cord" is a collection of short stories and books, translated into 14 languages. He received a Citation of Excellence from the Overseas Press Club for a series of essays in the House of Commons.

B.J. Ward interprets opera, nightclub routine
B.J. Ward sets out to demystify opera in her one-woman show called "Stand- up Opera." She will perform at 8 p.m. Oct. 23 and 23 p.m. Oct. 24 in the Davis room, Room 208 Mallinckrodt Center.

"Stand-up Opera" is an evening of musical theatre, presented in concert in Edison Theater's "Stage Left" series, which presents slightly offbeat events in the intimacy of the studio.


"If a opera opera and you don't know what it is," wrote the Los Angeles Times, "and it's a grand showcase for this classy, funny sopr- ano."

With her four-octave range and wicked sense of humor, Ward is the toast of both coasts. St. Louisans can join in teasing Ward with a special cocktail, buffet supper and private performance to benefit Friends of Edison Theater at 7 p.m. Oct. 22. Tickets are $40, and $20 are available to students. For more info., call 935-6518.

"The show has provided the voices for a number of small animals and children at Disney World and presented several films and television shows. She may be remem- bered best as the voice of Betty Rubble on The Jetsons."

Tickets are $12 for the general public; $10 for senior citizens and Washington University students and staff, and $8 for students. For information, call 935-6543.

Womens' Soccer
Last Week: Lindenwood 8, Washington 0; Washington 4, Delaware 2; Washington 1

Washington University Tournament Team, Saturday and Sunday, Oct. 9-10, Francis Field (vs. Cortland State, 1 p.m. Saturday); St. John's 2, Washington 1; Women's Soccer, 7:30 a.m. Sunday, Oct. 10, Championship Match, 1 p.m. Sunday.

Sophomore Renee Mere, Schenectady, N.Y., drifted her first career goal with less than three minutes remaining in the 12th minute of the second half to lead Washington to a 1-0 victory over No. 14 Nebraska.

Cross Country
Last Week: at Loyola Lakefront Invita- tional (Chicago, Ill.), Men: 14 of 24 teams, Women: 24 of 24 teams.

The Bears advanced to the finals in four of the six singles brackets and in one of the two doubles flights Millikan Univer- sity. Sophomore Sara Kus, Cervantes, and Colleen Howard, both freshmen, finished third and first, respectively, in the 7,500 meter run.

Womens' Tennis
Last Week: at Dorothy McClure Memo- rial Tournament (Decatur, Ill.) --- No action

This Week: vs. St. Louis University, 3:30 p.m. Wednesday, Oct. 6, Tao Tennis Center

The Bears entered the finals in four of the six singles brackets and in two of the doubles flights Millikan Univer- City. Sophomore Sara Kus, Cervantes, and Colleen Howard, both freshmen, finished third and first, respectively, in the 7,500 meter run.
Several changes made based on cluster's recommendations — from page 1

Remains given to Southern Ute tribe — from page 1

National search ends, William Taylor named campus police director

A
fter an extensive national search, William F. Taylor, Jr., has been named interim director of campus police, according to Thomas A. Harig, associate vice chancellor for business affairs. He succeeds Norman C. Candler, who retired last December after nearly 24 years with the University, who had begun his duties on Oct. 4. As director of campus police, his duties include serving as a liaison between law enforcement agencies, the administration and the community.

"I am delighted to have Mr. Taylor join the Washington University staff," said Harig.

Taylor has 21 years of diverse law enforcement experience, including nearly 19 years with the Department of Public Safety at Washington University, where he was commander of the university's West Campus, adjunct to the associate director, and acting lieutenant, among other positions. The department has 45 peace officers that serve a population of 50,000 students, faculty and staff.

Taylor most recently was a police officer in Paradise Valley, Ariz., and also has worked for the Arizona Capitol Police, where he directed the law enforcement activities at the state buildings in Phoenix and in Tucson.

"I'm really thrilled about coming to Washington University," said Taylor. "I'm very impressed with the University and look forward to being a part of the Washington University family here." Taylor said he supports a community-oriented approach to law enforcement and was impressed by the campus Police Department's willingness to become more involved with the Washington University community. He added that it is important for the department to include not only law enforcement but other issues as well, such as education and individuals about alcohol and substance abuse. "I like to take a pro-active stance on issues," added Taylor, who has also presented crime prevention and safety awareness seminars to the Arizona State University community.

Taylor has worked with the University for 10 years as an advisor and manager, has been active in several professional law enforcement organizations, and is a member of the International Association of Chiefs of Police, International Association of Law Enforcement Administrators (1984-91), FBI National Academy Associates and the American Society for Industrial Security.

A native of the Philadelphia area, Taylor received a bachelor's degree in criminal justice in 1976 from Arizona State University and a master's degree in public administration from the University of Phoenix in 1983. He also attended the FBI National Academy in Quantico, Va., in 1985.

U.S. News study ranks Washington among nation's best colleges

Washingto n University is ranked 18th out of the 204 best-known national universities in U.S. News and World Report's seventh annual ranking of "America's Best Colleges." The study is a category-by-category ranking of the nation's leading colleges and universities.

This new ranking places Washington University's highest ranking number at 20. The University has been ranked in the top 25 for several years, and jumps five places between the 18th and 24thplace based on the latest data. The report appears in the Oct. 4 U.S. News.

The U.S. News rankings combine a school's overall reputation with its student selectivity, faculty, financial resources and facilities to produce the annual ranking.

This year, 2,655 college presidents, deans and admissions directors participated in the survey of academic reputation, producing a record number of responses. The report is based on a 65 percent response rate.

The 204 universities according to the U.S. News survey are: 1.) Harvard; 2.) Princeton; 3.) Yale; 4.) MIT; 5.) CalTech; 6.) Stanford; 7.) University of Chicago; 8.) Duke; 9.) University of Chicago; 10.) Cornell; 11.) Columbia; 12.) Brown; 13.) Notre Dame; 14.) Stanford; 15.) Johns Hopkins; 16.) Penn; 17.) Georgetown; 18.) Washington; 19.) UC, Berkeley; 20.) Vanderbilt; 21.) University of Virginia; 22.) U.C.L.A.; 23.) University of Michigan; 24.) Carnegie Mellon; and 25.) Emory and Notre Dame (tie).
Rational thinking, data analysis, and the development of sound policies are essential for understanding and addressing the challenges faced by countries and organizations. The need for critical thinking, evidence-based decision-making, and the consideration of diverse perspectives is crucial in various fields, including psychology, law, and economics. The skills and knowledge discussed in this document are valuable not only for professionals in these fields but also for anyone seeking to understand complex issues and make informed decisions.
Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding salary and benefits may be obtained in the Office of Human Resources, Room 126 North Brooklyn Hall, or by calling 913-996.

Assistant Accountant
940080. Requirements: Accounting experience; Requirements: 18 hours of college business courses, including spreadsheet software (Word Perfect), confidence in verbal ability; ability to deal effectively with University personnel; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Receptionist
940064. Administration and Development Programs. Requires: High school graduate; one to two years of secretarial/receptionist experience or training; typing 40 wpm with accuracy; good command of English language; alert, well-spoken, well-groomed, pleasant; be able to make a first impression on alumni, parents, students, donors and friends of the University and should be a positive and efficient. Clerical tests and three letters of recommendation required.

Departmental Secretary
940090. Administration and Development Programs. Requires: Associate's degree, bachelor's degree preferred; strong back-ground in word processing; excellent verbal and written skills; pleasant, professional on-line system (FIS, SIS, ELG, PSUS), ability to use personal computer, including spreadsheet software (Word Perfect), confidence in verbal ability; ability to deal effectively with University personnel; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Secretary I
940072. General Services. Requirements: High school graduate, some college preferred; ability to deal cordially with the public; typing 40 wpm with accuracy. Clerical tests and three letters of recommendation required.

Secretary/Receptionist
940078. Human Resources. Requirements: 18 hours of college business courses, including spreadsheet software (Word Perfect), confidence in verbal ability; ability to deal effectively with University personnel; typing 45 wpm with accuracy. Clerical tests and three letters of recommendation required.

Departmental Secretary
940080. Administration and Development Programs. Requires: Associate's degree in related field, including two years of basic scientific and manual skills as is offered to many technical instructors and junior colleges, or an equivalent degree of on-the-job training; proven supervisory and administrative skills; excellent interpersonal and communications skills; full knowledge of personal computer; excellent attendance record; experience with Bell & Howell ABBY.S. 30 mail machines and IBM 3812 laser printers is a definite plus. Resume and three letters of recommendation required.

Receptionist/Entry Clerk
940072. General Services. Requirements: High school graduate, some college preferred; ability to deal cordially with the public; typing 40 wpm with accuracy. Clerical tests and three letters of recommendation required.

Secretary/Receptionist
940078. Human Resources. Requirements: Two years of college, associate's degree preferred; typing 50 wpm with accuracy; knowledge and establish priorities under pressure; ability to meet tight deadlines and perform under minimal supervision; stamina; requires some delivery of correspondence and packages across campus.) Full time, may require some overtime. Requirements: Internal Medicine. 940247-R. Requirements: High school graduate or equivalent; some college in accounting or related field; excellent interpersonal and communication skills. 940223-R. Phrenology. Requirements: Three years of college, prefer college graduate with knowledge of microbiology and understanding of human development. 940199-R. Internal Medicine. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor. 940257-R. Biology. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor. 940219-R. Psychology. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor. 940011-R. Chemistry. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor. 940016-R. Psychology. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor. 940086-R. Accounting. Requirements: High school graduate; a cheerful and courteous disposition; should be flexible and attentive to detail; be able to set priorities and work on numerous tasks with constant interruption; working knowledge of University procedures is preferred; general office experience required; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Departmental Secretary
940077. Alumni and Development. Requirements: Required: one to two years of secretarial/receptionist experience or training; typing 50 wpm with accuracy, specialized secretarial skills; must have three years of general office experience; good command of English language; alert, well-spoken, able to deal effectively with University personnel; ability to work under minimum supervision; mature, well-groomed, pleasant. Clerical tests and three letters of recommendation required.

Staff Development Officer
940079. Orientation Library. Requirements: Master's degree in library science or related field preferred; academic background in personnel administration, adult education, psychology, or counseling preferred; demonstrated skill in training adults to acquire new skills, use prior knowledge of training and maximum transfer of training; understand the role of the research library in higher education; expertise in library operations preferred; sensitivity and responsiveness to staff needs; excellent oral and written communication skills. Application deadline is Nov. 1. Resume and three letters of recommendation required.

Administrative Secretary
940080. General Services. Requirements: Associate's degree or equivalent; typing 50 wpm with accuracy; excellent secretarial skills. Clerical tests and three letters of recommendation required.

Clerical/Office Clerk
940084. Computer Services. Requirements: High school graduate, two years of college preferred, basic math skills and ability to operate word processing machine; one year of electronic register experience preferred; previous experience desirable. Physical condition for recurrent lifting of moderately heavy items; excellent attendance record; must be able to work evenings and Saturdays; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Public Service Coordinator
940085. College of Arts and Sciences. Requirements: Some college, associate's degree preferred; ability to respond promptly to students, faculty, staff, and visitors; ability to make appointments, maintain calendars, and maintain sensitive information for vacancies, and the office should be organized, flexible, team-oriented; ability to interact effectively with individuals inside and outside the University.

Systems Manager
940180-R. Information Technology. Requirements: High school graduate or equivalent, associate's degree preferred; general knowledge of computer system and network architecture, as well as some knowledge and experience with personal computer hardware and operating systems (DOS and Windows). 940199-R. Internal Medicine. Requirements: High school graduate or equivalent; experience with Lotus 1-2-3 and MicroSoft Word; ability to interact with patients and staff; typing 50 wpm.

Medical Transcriptionist
940199-R. Internal Medicine. Requirements: High school graduate or equivalent; ability to transcribe voice mail messages and listen to tapes in a transcription laboratory; typing 60 wpm with accuracy, experience with WordPerfect 5.1. 940257-R. Biology. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor.

Contract Administrator Assistant
940219-R. Administration, Planning. Requirements: High school graduate, two years of college preferred; ability to type 100 wpm; hours will vary with workload. 940223-R. Phrenology. Requirements: Three years of college, prefer college graduate with knowledge of microbiology and understanding of human development. 940225-R. Rehabilitation. Requirements: High school graduate or equivalent; ability to type 100 wpm; hours will vary with workload. 940229-R. Psychology. Requirements: Some college, associate's degree preferred; typing 50 wpm and experience on word processor.

Reference Librarian, Part-time
940076. Business. Requirements: ALA-accredited school for librarianship. Full-time equivalent for all operations in the library during the weekend, will implement and interpret the library's vision for the University and third parties, suggesting modifications to the contracts and agreements as appropriate.

Medical Research Technician
940223-R. Psychology. Requirements: Bachelor's degree with one year of experience in a molecular biology lab; theoretical and practical knowledge of cell biology; work with isotopes and potentially toxic solvents, bacteria strains and tissue cell cultures.

Medical Library
940247-R. Psychology. Requirements: Bachelor's degree with one year of experience in a molecular biology lab; theoretical and practical knowledge of cell biology; work with isotopes and potentially toxic solvents, bacteria strains and tissue cell cultures.

Medical Library
940247-R. Psychology. Requirements: Bachelor's degree with one year of experience in a molecular biology lab; theoretical and practical knowledge of cell biology; work with isotopes and potentially toxic solvents, bacteria strains and tissue cell cultures.

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