Welcome to the Pathology Residency Website
at the University of Washington

Bold items indicate a web addresses is available at the bottom of the page.

The strength of our program lies in the exceptional core training provided by a broad range of cases and the expertise of our faculty at UWMC and our affiliated hospitals. Whether academic medicine or community practice, our graduates are ready to join more than 400 alumni in a rewarding, life-long career in the multi-faceted specialty of pathology. We offer residents a flexible learning experience in all areas of anatomic and clinical pathology and are recognized as one of the most outstanding programs in the country through our activities in diagnosis, teaching and research. The Accreditation Council for Graduate Medical Education (ACGME) has accredited our program for more than 20 years.

We accomplish this broad-based training with our clinical affiliations at the University of Washington Medical Center, Harborview Medical Center, Children’s Hospital and Regional Medical Center, Veterans Affairs Puget Sound Health Services, Puget Sound Blood Center, Seattle Cancer Care Alliance and other medical facilities across the Pacific Northwest. Listed among the top 10 hospitals in the nation by U.S. News & World Report, the University of Washington Medical Center offers primary and specialty care to people in Washington, Wyoming, Alaska, Montana and Idaho. The School of Medicine is a recognized leader in the biomedical sciences and the teaching of medicine, excelling in both training and scientific research.

Celebrating more than 40 years of excellence, our program offers training opportunities and fellowships in a broad range of subspecialty areas. The Departments of Pathology and Laboratory Medicine have one of the highest levels of federal research funding of any pathology department in the United States, with research programs conducted in more than 50 laboratories. Our residency program offers exceptional opportunities for research training in basic science, disease pathogenesis, and translational research applied to clinical practice.

We strive to provide you with complete information about our program, our residents and faculty, our institution, and our city within this website. We hope that you find this information helpful in your decision to apply to our program:

- Application procedures and checklist.
- Detailed descriptive information about the design of our program including training requirements and schedules, electives, research opportunities, and fellowships.
- An introduction to our current residents and fellows, faculty, and teaching facilities.
- Information on salaries and benefits.
- Job placement and the success of our alumni.
- A mini-tour of Seattle - The Emerald City - and the wonderful opportunities it has to offer.

We encourage you to visit our website often for the latest information about our program.

Websites
Department of Pathology: www.pathology.washington.edu
Department of Laboratory Medicine: depts.washington.edu/labweb/
Why Choose the UW Pathology Residency Program?

40 Years of Training Excellence! The first “official” residency class began in 1959. Since then we have trained nearly 400 professionals to lead the field in clinical practice and research in Anatomic and Clinical Pathology across the United States and around the world. Our program has participated in the National Residency Matching Program since 1972.

Nationally-respected faculty who bring a broad approach to the study of pathology, including subspecialty expertise in all of the human tissues and systems, aging, cytogenetics, blood banking, cancer, environmental pathology, clinical chemistry, coagulation, comparative pathology, computerized systems, forensics, hematopathology, image analysis, immunology, inflammation, molecular diagnostics, neurology and neuropathology, nutrition, pediatrics and perinatal pathology, ultrastructure, virology, surgical and autopsy pathology.

Flexible training program that addresses the diverse interests and needs of our residents. Based on a four-year combined program, residents learn a solid core of basic knowledge, as well as tailor elective time to meet their specific subspecialty or research interests.

Clinical training in the world-renowned hospital facilities affiliated with the University of Washington including the University of Washington Medical Center, Harborview Medical Center, VA Puget Sound Health Care System, and Children’s Hospital and Regional Medical Center. More than 2,000 beds provide 1,600 autopsies (including 900 forensic cases) and 55,000 surgical and 75,000 cytology specimens each year. More than 7.7 million clinical laboratory tests are done each year. Elective rotations are available at most of the medical facilities in the Puget Sound region.

Part of the University of Washington School of Medicine, which U.S. News and World Report has rated as the #1 primary-care medical school in the country. UWMC and many of its clinical services are among the top 10 in the country.

Abundant opportunities for advanced study in clinical research, basic science and experimental pathology. Clinical fellowships include clinical chemistry, clinical pathology, cytopathology, forensics, gastrointestinal pathology, hematopathology, immunohistochemistry, microbiology, neuropathology, renal pathology, surgical pathology, and virology. Pediatric pathology, bone and soft tissue, and dermatopathology fellowships are being planned for 2003. Research fellowships are available under training grants in aging, carcinogenesis, vascular biology, arteriosclerosis, and environmental pathology. The Departments of Pathology and Laboratory Medicine consistently rank in the top three nationwide for federal research funding.

Seattle, a metropolitan center of 2.8 million people, is thriving as the hub of the Pacific Northwest and a key center for Pacific Rim international trade. And it has benefited from this geographic advantage, experiencing exceptional economic growth over the past 10 years. It is beautifully situated on the shores of Puget Sound between the coastal Olympic Mountain range and the Cascades. Recreational opportunities are limitless - all within an hour’s drive of the University. Seattle offers a cornucopia of cultural entertainment in music, theater, literature and the arts. For the sports fans there are professional football, baseball, basketball and semi-pro hockey teams, as well as the Pac-10 favorite UW Huskies! All of this in a temperate climate and only 36 inches of rain annually.

Websites
UW School of Medicine:  www.washington.edu/medical/som/
Department of Pathology:  www.pathology.washington.edu
Department of Laboratory Medicine:  depts.washington.edu/labweb/
Seattle:  www.seattle.net
We are only accepting applications through ERAS and for applicants registered for the NRMP Match. We are looking for candidates with excellent academic performance and a strong interest in pursuing pathology as the next step in their education.

We are frequently asked for specific criteria for International Medical Graduates. Although we do not have specific requirements, historically, IMG candidates who have been invited to interview have had the following characteristics:

- USMLE Scores (all steps taken) above 200 (80) on the first attempt
- Pass on the CSA (effective 1999)
- Graduated from medical school less than 5 years ago
- At least one year paid experience within US medical system (preferably in pathology-related specialty) OR post-MD study (PhD or Masters)
- J-1 Visas or US Naturalization

For applicants who are transferring from or have completed study in another specialty, and who are applying for a first-year pathology position, you will need to apply through ERAS and enroll in the Match. One of your reference letters must be from your current residency program director.

We receive approximately 300 applications and interview 50-60 candidates for 5-6 positions each year.

Your application is complete when we receive the following through ERAS:

- ERAS Common Application Form (CAF)
- Personal Statement (1-2 pages)
- Official Medical School Transcripts
- Medical Student Performance Evaluation (Dean’s Letter)
- Three Letters of Reference - from faculty members, mentors, or supervisors who can address your performance and your commitment to the study of pathology
- USMLE Scores (or equivalent) – report for all steps taken as they become available
- International Medical Graduates (in addition):
  - ECFMG Status Report
  - Documentation of INS Status
<table>
<thead>
<tr>
<th><strong>2003-2004 Recruiting Time Table</strong></th>
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<tr>
<td><strong>ERAS Post Office Opens for Applications</strong></td>
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<td><strong>APPLICATION DEADLINE</strong></td>
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<td><strong>NRMP Match Registration Deadline</strong></td>
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<tr>
<td><strong>APPLICATION REVIEW:</strong> Review Committee selects applicants invited for interview.</td>
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<tr>
<td><strong>INTERVIEWS:</strong> Interview date and travel accommodations are arranged by Residency Manager.</td>
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<tr>
<td><strong>MATCH DAY</strong></td>
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</tbody>
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The University of Washington provides equal opportunity in education without regard to race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era in accordance with the University of Washington policy and applicable federal and state statutes and regulations.

**Websites**
- ERAS: [www.aamc.org/students/eras/start.htm](http://www.aamc.org/students/eras/start.htm)
- NRMP: [www.nrmp.org/](http://www.nrmp.org/)
- ECFMG: [www.ecfmg.org](http://www.ecfmg.org)
**Program Description**

**Introduction**

The goal of the University of Washington Pathology Residency Program is to prepare physicians for the practice of pathology in any setting -- academic medical center, community hospital, or biotechnology laboratory. We believe this goal is best achieved in an academic environment that offers breadth and depth in all aspects of pathology. Our graduates handle a wide range of traditional problems, as well as practice as the “pathologist of tomorrow” by acquiring familiarity with emerging technologies and rare diseases seen in tertiary care, academic referral centers such as the University of Washington Medical Center and its affiliated hospitals. In addition to basic training in pathology, we offer a wealth of subspecialty and research training opportunities in many areas of Laboratory Medicine and Pathology. The jobs taken by graduates of our program reflect the diverse goals, training paths, and careers for which we are able to train our graduates. Typically, half of our graduates continue in academic medicine while the other half seek employment in a community setting.

**Overview of Program**

The Accreditation Council for Graduate Medical Education (ACGME) provides accreditation for our Anatomic and Clinical Pathology program as well as most of our subspecialty fellowship programs. Upon completion of the training program, residents are eligible to take the certification exam from the American Board of Pathology (ABP). The ABP provides board certification in the following subspecialty areas:

- Blood Banking/Transfusion Medicine
- Chemical Pathology
- Cytopathology
- Dermatopathology
- Forensic Pathology
- Hematology/Hematopathology
- Medical Microbiology
- Molecular Genetic Pathology
- Neuropathology
- Pediatric Pathology

*We offer ACGME accredited fellowship training for these subspecialty areas.

Our program requires two years of study each in anatomic and clinical pathology, which will meet the Board certification requirement. The two years of training in Anatomic Pathology provide broad and comprehensive exposure to the areas of autopsy, surgical pathology and cytology. The first year in Clinical Pathology introduces the resident to all the major areas of laboratory medicine based on a comprehensive "core" curriculum. The subsequent year includes six months as Acting Director of a lab section.

Many of our residents combine residency training with post-doctoral research, leading to careers in academic medicine. Acknowledged as a leader in the U.S., the Pathology Residency Program provides residents with diverse opportunities for an academic medical career. A number of our residents engage in post-doctoral research supported by NIH-sponsored training grants.

We believe variety is the key to a successful training program. The resident learns best from the variety of approaches from individual pathologists, diverse patient populations in variable clinical settings, and the wide range of disease processes that we present in our program. Our required rotation sites -- University of Washington Medical Center (UWMC), Harborview Medical Center (HMC), Children’s Hospital & Regional Medical Center (CHRMC), VA Puget Sound Health Care System (VA) and Puget Sound Blood Center (PCBC) -- provide a well-rounded and varied experience in anatomic and clinical pathology. Community sites, such as King County Medical Examiner’s Office, Swedish Hospital, and Seattle Cancer Care Alliance supplement the required sites for senior electives.
### Typical AP/CP-4 Resident’s Educational Program

<table>
<thead>
<tr>
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<th>3 Months</th>
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<tr>
<td><strong>1st Year</strong></td>
<td>Autopsy</td>
<td>Autopsy – Surgical Pathology</td>
<td>Surgical Pathology</td>
<td>Surgical Pathology – Cytology – Neuropathology – Forensic Pathology</td>
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<tr>
<td></td>
<td>UWMC</td>
<td>VA</td>
<td>UWMC</td>
<td>HMC</td>
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<tr>
<td><strong>2nd Year</strong></td>
<td>Dermpath</td>
<td>Surgical Pathology</td>
<td>Elective</td>
<td>Surgical Pathology</td>
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<tr>
<td></td>
<td>UWMC</td>
<td>UWMC</td>
<td>UVMC</td>
<td>UVMC</td>
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<tr>
<td><strong>4th Year</strong></td>
<td>Acting Lab Director</td>
<td>Trans Med</td>
<td>Acting Lab Director</td>
<td>Research/Elective</td>
</tr>
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</table>

Most combined AP/CP residents begin their training in Anatomic Pathology for the first two years and then undertake their Clinical Pathology training the next two years. Straight AP and CP residents complete their respective three years in the appropriate track. Throughout their training years, residents can explore their options for additional one or two years of subspecialty training in our fellowship program. We offer clinical subspecialty and research fellowships in all areas of clinical and applied pathology. Additional information about fellowship opportunities is described further on our website.

We currently have 24 residency positions distributed between the combined AP/CP program and the tracks of straight AP or CP only. We usually recruit five residents each year.

### Goals and Competencies

The program educates residents in both Anatomic Pathology and Laboratory Medicine. The Anatomic Pathology program focuses on skills and methodologies associated with diagnostic surgical pathology, cytopathology, and autopsy pathology. The Laboratory Medicine program focuses on skills and methodologies associated with chemistry, microbiology, immunology, hematology, coagulation, and blood banking. Both programs encourage residents to take part in ongoing teaching and research activities.

Residents must be capable of assimilating a large amount of basic information. This includes an understanding of basic human biology, i.e., an understanding of normal and abnormal human structure-function interactions at all levels of biologic organization during all stages of life, including information considered to be basic to the general practice of medicine.

Residents must be capable of practical problem solving. This involves the thoughtful use of general information in evaluating the significance of specific observations made on specific patients and/or patient specimens. It also involves recognition of the uncertainty that abounds in medicine and the intellectual honesty to admit, “I do not know what this observation means,” as an important step in an individual’s educational process.

The program has detailed objectives to meet our program goals for each area of training. These objectives outline the areas of knowledge a resident must master to become a competent pathologist. The program goals and objectives are published on the residents’ Intraweb.

In 2000 the ACGME initiated the **Outcome Project**, which is a long-term initiative to increase emphasis on measured educational outcomes in graduate medical education. In response to this directive, residency programs are developing new methods and measurements to assess residents’ successful attainment of skills and knowledge for the practice of pathology. The competencies cover six key areas: patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice. We are addressing this directive with revised evaluation tools and better-defined objectives.
Training in Anatomic Pathology

Dr. Rochelle Garcia directs the anatomic pathology training and overall pathology residency program.

First Year AP Training. During their initial year, residents train in autopsy pathology, surgical pathology, and cytology. Assigned cases in rotation, residents primarily analyze the anatomical disease process and its correlation with clinical findings. On the average, residents spend 4 months each at UWMC, VA Puget Sound Health Care System, and Harborview Medical Center. At UWMC, residents spend 2-3 months in autopsy pathology training under Dr. Corinne Fligner, Director of Autopsy Pathology and one month in surgical pathology training directed by Dr. Paul Swanson, Director of Anatomic Pathology. The rotation at the VA provides concurrent training in autopsy and surgical pathology directed by Dr. David Thorning. At Harborview, residents study primarily surgical pathology, cytology, and neuropathology supervised by Dr. Nancy Kiviat. Residents are encouraged to enhance their autopsy experience with forensic pathology training at the King County Medical Examiner’s Office, under the supervision of Dr. Richard Harruff, Chief Medical Examiner.

Second Year AP Training. The resident devotes this year to surgical pathology at UWMC and CHMC. This rotation provides comprehensive training and experience in general surgical pathology, in the management and diagnosis of rare diseases and complex specimens, and in subspecialty areas, including soft tissue, GI, derm, breast and gynecological pathologies. In addition, residents receive case-based training in the subspecialty areas of immunocytochemistry, ultrastructure, and flow cytometry. For two months of the second year, residents study anatomic pathology at Children’s under the direction of Dr. Joe Rutledge, Director, Laboratory Services. The remainder of the second year of training provides elective opportunities. We designed our program so residents increase their responsibility for independent sign out of surgical specimens during their second year of Anatomic Pathology training.

Training in Clinical Pathology

First Year CP Training. The first year of Clinical Pathology takes place at the University of Washington Medical Center, Harborview Medical Center and the VA Puget Sound Health Care System. The year comprises a tightly organized full year of study, beginning with a 10-week core course (lectures, discussions and laboratory exercises) designed to introduce the trainee to the breadth of the field of clinical pathology. The introductory course covers basic material in blood banking, coagulation, immunology, urinalysis, clinical chemistry, microbiology, hematology, parasitology, mycology, virology, molecular pathology, biostatistics and laboratory computer applications. This is followed by a series of rotations in the following areas:

- Chemistry (11-12 weeks)
- Microbiology (6-7 weeks)
- Immunology/Genetics (4 weeks)
- Blood Bank (3 weeks)
- Virology (2 weeks)
- Hematology (7 weeks)
- Coagulation (4 weeks)
- Laboratory testing - interpretative course (2 weeks)

Second Year CP Training. Residents tailor the second year to meet their specific career goals. During the first six months, second-year residents receive an in-depth exposure to one or two areas of laboratory medicine and exercise graded responsibility by acting as directors of subspecialty lab sections. Additionally, three weeks of the second year are spent in a clinically-oriented rotation in transfusion
medicine at Puget Sound Blood Center (PSBC). The remainder of this year is spent in either AP or CP electives. The resident may spend this time developing skills in one or more areas of the clinical laboratory or receive a more generalized experience at one of the community hospitals associated with the program. Second year Clinical Pathology residents train at UWMC, Harborview, the VA, and PSBC.

Resident Portfolio. Medicine has become increasingly on the existence of documented evidence to support decisions and practices. This extends to a need for concrete documentation of resident competency. One well-accepted way of documenting competency is by the development of a portfolio of representative work products. Accordingly, each resident will develop an electronic portfolio documenting experiences and work products while a resident. This may include summaries of consultations, etc., while on call or on rotations, papers and abstracts published or submitted, Powerpoint presentations of Grand Rounds and other formal talks, method evaluation data and written procedure(s) from a method development project, and anything else that may be useful to the American Board of Pathology, the Accreditation Council for Graduate Medical Education, or a potential future employee in evaluating the resident’s competency and training. This portfolio also provides an opportunity for self-reflection and practice-based learning. At the end of your training, the portfolio will be copied onto a CD, with one copy for the resident and a copy placed in the resident’s training file.

Conferences

Our residents receive extensive one-on-one, over-the-microscope training with our faculty. Residents learn by attending and presenting at didactic teaching sessions, sign outs and clinical conferences. In addition, there are a wide variety of teaching conferences, many multi-disciplinary in subspecialty areas, i.e. breast cancer, hematology, infectious disease, medical-pathology, surgical-pathology, tumor board, sarcomas, at both UWMC and in all of the affiliated hospitals. Numerous departmental seminars provide opportunities for residents to learn about the research activities being conducted by the faculty and by visiting scientists.

The schedule below is for conferences the residents attend at UWMC. The other training sites – HMC, VA, CHMC, PSBC – offer their own conferences as well. Residents are provided parking reimbursement to attend conferences at UWMC when they are on rotation at other sites.

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<tr>
<th>Day</th>
<th>Conference</th>
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<tbody>
<tr>
<td>Monday</td>
<td>Cytology Teaching*</td>
<td>8:15-9:15</td>
<td>AP</td>
<td>Tuesday</td>
<td>Multidisciplinary Tumor Board</td>
<td>7:00-8:00</td>
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<td></td>
<td>Poison Control Center Audioconference</td>
<td>8:30-9:30</td>
<td>CP</td>
<td></td>
<td>Didactic Series*</td>
<td>8:00-9:00</td>
<td>AP</td>
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<td></td>
<td>Micro Plate Rounds</td>
<td>11:00-12:00</td>
<td>CP</td>
<td>Micro Plate Rounds</td>
<td>11:00-12:00</td>
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<td></td>
<td>Sarcoma Conference</td>
<td>12:00-1:00</td>
<td>AP</td>
<td></td>
<td>Chair of Medicine-Autopsy Conference*</td>
<td>12:00-1:00</td>
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<td></td>
<td>Brain Cutting Conference*</td>
<td>3:00-5:00</td>
<td>AP</td>
<td></td>
<td>Breast Cancer Conference</td>
<td>1:00-finish</td>
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<td></td>
<td>Endocrine CPC</td>
<td>5:15-6:15</td>
<td>AP</td>
<td></td>
<td>Transplant Biopsy Review</td>
<td>4:00-5:00</td>
<td>AP</td>
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<td>Day</td>
<td>Conference</td>
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<td>Wednesday</td>
<td>Urology Conference</td>
<td>6:00-7:45</td>
<td>AP</td>
<td>Wednesday</td>
<td>Autopsy Case Review*</td>
<td>1:30-2:30</td>
<td>AP</td>
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<tr>
<td></td>
<td>GU Tumor Board</td>
<td>7:45-9:00</td>
<td>AP</td>
<td></td>
<td>Autopsy Case Discussion Conference</td>
<td>2:30-3:30</td>
<td>AP</td>
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<tr>
<td></td>
<td>Residents’ Great Case Conference*</td>
<td>8:15-9:15</td>
<td>AP</td>
<td></td>
<td>Lab Med Research Conference*</td>
<td>2:30-3:30</td>
<td>CP</td>
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<tr>
<td></td>
<td>Liver Tumor Conference</td>
<td>10:00-11:15</td>
<td>AP</td>
<td></td>
<td>Lab Med Grand Grounds*</td>
<td>3:30-4:30</td>
<td>CP</td>
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<td></td>
<td>Forensic Pathology Conference</td>
<td>11:00-12:00</td>
<td>AP</td>
<td></td>
<td>Pathology Research Seminar</td>
<td>4:30-5:30</td>
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<tr>
<td></td>
<td>Lab Med Lecture Series</td>
<td>11:00-12:00</td>
<td>CP</td>
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<td>Lab Med</td>
<td>Call Rounds*</td>
<td>12:00-1:00</td>
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<tr>
<td>Thursday</td>
<td>Didactic Series*</td>
<td>7:00-8:00</td>
<td>AP</td>
<td>Friday</td>
<td>Cardiology-Pathology Conference</td>
<td>7:30-8:30</td>
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<td>Dermatopathology Didactic Conference*</td>
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<td>AP</td>
<td></td>
<td>Gyn-Onc Pathology Tumor Board</td>
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<td></td>
<td>Micro Plate Rounds</td>
<td>11:00-12:00</td>
<td>CP</td>
<td></td>
<td>Fetal Perinatal Pathology</td>
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<td>AP</td>
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<td></td>
<td>GI Conjoint Conference</td>
<td>12:00-1:00</td>
<td>AP</td>
<td></td>
<td>Micro Plate Rounds</td>
<td>11:00-12:00</td>
<td>CP</td>
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<td>Hematology Conference</td>
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<td></td>
<td>Unknown Case Conference (Bluebox)*</td>
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<td></td>
<td>Breast Cancer Conference</td>
<td>1:00-finish</td>
<td>AP</td>
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</tbody>
</table>

*Required attendance

In addition to lectures and conferences, residents attend sign out sessions. In Anatomic Pathology there are daily sign out sessions in surgical pathology, GI Pathology, and immunohistochemistry. In Laboratory Medicine the daily sign out sessions are in hematopathology, electrophoresis and molecular diagnostics.

**Electives**

During their second year of AP or CP training residents arrange their unique six-month elective experience with faculty, which is approved by the Director. Many options are available within the University of Washington residency program. Electives may also be designed at off site locations within the guidelines from the School of Medicine Graduate Medical Education Office. We encourage the residents to discuss these options early in the training program. The following are brief descriptions of electives that residents have taken in the past, which suggest the variety of training possibilities.

- **Anatomic Pathology**: In-depth elective training is available in the pathology subspecialty areas of dermatopathology (Dr. Zsolt Argengyi), breast (Dr. Tom Lawton), sarcoma (Dr. Brian Rubin), gastrointestinal (Dr. Mary Bronner), gynecological (Dr. Rochelle Garcia), pulmonary (Dr. Rod Schmidt), renal (Dr. Charles Alpers), immunohistochemistry (Dr. Paul E. Swanson) and cytology (Dr. Mujun Yu, Dr. Nick Agoff).
- **Laboratory Medicine**: Electives in all areas - clinical chemistry (Dr. Pete Rainey, Dr. Hossein Sadrzadeh, Dr. Kent Opheim), microbiology (Dr. Tom Fritsche, Dr. Brad Cookson, Dr. Ferric Fang), parasitology (Dr. Fritsche), hematology/hematopathology (Dr. Dan Sabath, Dr. Brent Wood, Dr. Steve Kussick), immunology (Dr. Mark Wener), computer/informatics (Dr. David Chou, Dr. Michael Astion), virology (Dr. Lawrence Corey, Dr. Keith Jerome) - are available.
- **Blood Center/Transfusion Medicine**: An elective of 3 months is available at the Puget Sound Blood Center, which is the central laboratory for blood banking for Seattle.
- **Cytogenetics**: Training under the co-direction of Drs. Disteche and Norwood provides experience in diagnostic cytogenetics with emphasis on prenatal diagnosis employing amniotic fluid cells and postnatal diagnosis employing white blood cells, bone marrow cells and skin fibroblasts.
- **Electron Microscopy**: Training in the use and interpretation of diagnostic electron microscopy is available in rotations of one to two months at either the VA Puget Sound Health Care System (Dr. Thornig) or at UWMC.
- **Flow Cytometry**: Under the direction of Dr. Rabinovitch, the flow lab routinely analyzes DNA ploidy patterns of tumors from most organs using multi-parameter flow cytometry.
- **Forensic Pathology**: The King County Medical Examiner’s Office, located in HMC, performs 1,000 autopsies per year under Dr. Harruff’s direction. Training and experience in forensic pathology include scene investigation and court testimony.
- **Community Practice**: Provides residents with a hands-on opportunity to work with pathologists in a community practice setting including Swedish Medical Center, Madigan Army Hospital and Providence Medical Center.
- **Research**: Elective time is available at virtually any research lab at UWMC, HMC, CHRMC, the Fred Hutchinson Cancer Research Center, or another affiliated site. This is a valuable opportunity for residents interested in a multi-year research fellowship to familiarize themselves with the lab, its director and personnel, and its projects.

**Research Opportunities**

Our goal is to train residents to become well-rounded academic and clinical pathologists who will practice and develop pathology into the future. To achieve this goal, we believe research training is important for all residents, whether they seek a career in academic or community pathology. We encourage residents to work with faculty by investigating a biomedical area of interest. We support residents in their research endeavors by subsidizing presentations at national meetings.

**Resident Publications and Presentations 2001-2002**

- Allison KH, Mann GN, Norwood TH, Rubin BP. An Unusual Case of Multiple Giant Myelolipomas: Clinical and Pathogenetic Implications. *Submitted to Journal of Endocrine Pathology*.

Ishag MT, Schmidt RA. Cytokeratin 17 expression in pancreatic carcinoma. USCAP Meeting, 2002.


Mendelin JE, Agoff SN, Grieco VS, Garcia RL. Unexpected histologic and cytologic findings of hysterectomy patients with proven or suspected BRCA 1 or 2 mutations. USCAP Meeting, 2002.


Yuan S, Agoff SN. Splenorenal fusion presenting as a renal mass. To be published in Archives of Pathology and Laboratory Medicine.


**Teaching Opportunities**

Residents teach medical students taking electives in Anatomic and Clinical Pathology. For the first and second year students, residents work with faculty teaching pathology laboratory sessions. For medical students on elective rotation in pathology, residents work directly with students on both autopsy and surgical pathology cases. Residents also work with residents from other programs during their scheduled rotations including radiology and podiatry residents. In addition, residents give lectures and assist faculty in small group teaching of allied health personnel (medical technology students, cytotechnology students, physician assistants, etc.). The opportunity to teach students in the Health Sciences Center of the University of Washington and residents from other programs is an important component of our training program.

**Evaluations**

Feedback from the residents themselves provides the best method for continual improvement of our training program. Residents are strongly encouraged to discuss suggestions or problems with the Director or faculty at any time. Residents receive written faculty evaluations at the end of each rotation. The faculty members are encouraged to discuss this evaluation directly with the resident before submitting it for review by the Director. In addition, residents are assigned faculty advisors who assist the resident with career development. The advisor prepares an in-depth review of the resident’s performance twice each year. This evaluation is discussed by the Residency Management Committee to insure that the resident is meeting the competency requirements of our program. Residents receive copies of these evaluations. Residents submit to the Director anonymous written evaluations of each rotation experience. After review by the Director, the evaluations are given to the Service Chief for each rotation site. Residents meet with the Director each spring for a one-on-one discussion of training progress and career plans. The Chief Resident discusses program improvements with the housestaff and prepares an annual written report for the Director. Residents also participate annually in the Residency In-Service Exam, a national skills assessment provided by the American Society of Clinical Pathologists.

**Resident Representation**

Residents are represented on the Residency Management Committee by the Chief Residents. For more global issues affecting residents and their training, a peer-elected representative is selected every two years to attend CAP conferences and School of Medicine committees.

**Websites**

Fellowships: [www.pathology.washington.edu/academics/residency/Fellowship.html](http://www.pathology.washington.edu/academics/residency/Fellowship.html)

Residents’ IWeb: [www.pathology.washington.edu/academics/residency/Intraweb/IWeb-main.html](http://www.pathology.washington.edu/academics/residency/Intraweb/IWeb-main.html)

ACGME Outcome Project: [www.acgme.org/Outcome/](http://www.acgme.org/Outcome/)
We offer residents seeking a subspecialty training for the Boards numerous opportunities including chief residencies at the UWMC in Anatomic Pathology or Laboratory Medicine, fellowships in clinical subspecialties of pathology, elective studies at our affiliated hospitals, or research fellowships. All of our clinical fellowship programs are accredited by the ACGME or other appropriate accrediting agency. Throughout the training period, residents should discuss career options with the Program Director, Chair or relevant faculty. The application deadline is August 1 at least one year prior to the start of the academic year.

Detailed information about each fellowship and the application procedure is available online.

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<td>Paul E. Swanson, MD, PhD</td>
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Website
Fellowships:  [www.pathology.washington.edu/academics/residency/Fellowship.html](http://www.pathology.washington.edu/academics/residency/Fellowship.html)
Stipends & Benefits

Residents and Fellows receive the same benefits, except for the pension plan, as classified University of Washington staff. For further details about the benefits package, contact the UW Benefits Office at 206-543-2800 or by e-mail at benefits@u.washington.edu or on the Web at www.washington.edu/admin/benefits/.

Stipends
Annual Rate (Effective 7/1/02)
R1 = $37,728
R2 = $40,020
R3 = $42,276
R4 = $44,556
R5 = $46,812
R6 = $49,068
R7 = $51,360
R8 = $53,592

Insurance Benefits

University Paid
- Medical Plan (employee and family)
- Dental Plan (employee and family)
- Life Insurance
- Long-Term Disability
- Professional Liability (limited to residency training activities)

Optional Employee-Paid
- Supplemental Life Insurance
- Supplemental Long-Term Disability
- Discounts on Auto & Home Insurance

Other Benefits

University Paid
- Three weeks vacation and one day/month accrued sick leave.
- Educational leave and authorized travel expenses
- Annual book fund
- Limited DEA Privileges
- Limited on-call meals

Optional Employee-Paid
- Voluntary Investment Plan
- Washington State Deferred Compensation
- Dependent Care Assistance Program
- Priority Child Care Spaces
- Sick Child Care
- U.S. EE Savings Bonds
- Credit Union
- UPASS Reduced-Cost Bus Pass for Metro and Community Transit and Extensive Commuter Program
- Husky Card - Access campus-wide services: libraries, Academic Computer Center, sports and cultural events, Intramural Activities Center and Waterfront Activity Center
Do you have questions about our program? Ask the residents directly by going to our website and clicking on their name with an email link.

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<td>PGY-1</td>
<td>Stacey A. Berry, MD</td>
<td>AP</td>
<td>University of Houston</td>
<td>University of Texas Health Science Center at Houston</td>
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<td></td>
<td>Sara M. Duesterhoeft, MD</td>
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<td>Kerstin L. Edlefsen, MD</td>
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<td>Kristin M. Mantei, MD MHA</td>
<td>AP/CP</td>
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<td>Joanna J. Phillips, MD PhD</td>
<td>AP</td>
<td>Cornell University</td>
<td>University of Pennsylvania</td>
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<td>Don T. Tran, MD</td>
<td>AP/CP</td>
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<td>Albert Einstein College of Medicine/Yeshiva University</td>
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<tr>
<td>PGY-2</td>
<td>Kimberly K. Allison, MD</td>
<td>AP/CP</td>
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<td>New York Medical College</td>
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<td>Kim D. Jewell, MD</td>
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<td>Jason E. Love, MD</td>
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<td>Carl W. Wigren, MD</td>
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<td>Matt J. Lacy, MD</td>
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<td>Brigitte K. Nixon, MD</td>
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<td>Eva Skarpidi, MD</td>
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<td>Shan Yuan, MD</td>
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<td>Joel E. Mendelin, MD</td>
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<td>Puja Verma, MD</td>
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<td>Ana E. Bennet, MD</td>
<td>CYTO</td>
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<td>Andy W. Hing, MD PhD</td>
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<td>Vladimir D. Kravtsov, MD PhD</td>
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<td>Sarah B. Transue, MD</td>
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<td>Jane J. Yin, MD PhD</td>
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Website
Email Links for Residents:  [www.pathology.washington.edu/academics/residency/ResFel.html](http://www.pathology.washington.edu/academics/residency/ResFel.html)

**Faculty**

You can read more at the websites for [Pathology Faculty](http://pathology.washington.edu/faculty) and [Laboratory Medicine Faculty](http://depts.washington.edu/labweb/dept/staff/faculty.html).

**Websites**
Department of Pathology:  [www.pathology.washington.edu/faculty](http://www.pathology.washington.edu/faculty)
Laboratory Medicine:  [depts.washington.edu/labweb/dept/staff/faculty.html](http://depts.washington.edu/labweb/dept/staff/faculty.html)
Alumni

The first official residency training class began January 1, 1959 and since then we have trained more than 400 residents and fellows who practice in the community and academic centers around the globe. Once you have completed your training and graduated from our program, we hope that you will stay connected with us. If you have any news items, job postings, or program suggestions, please contact our Residency Director.

Program News

- **Notes from Salivary Gland Seminar**  Photographs of Dr. Barnes' slides along with his references for his Friday conference are available online. Residents Chalengpoj "Charlie" Sthapanachai, MD and Brigitte Nixon, MD, with the assistance of faculty members Brian Rubin, MD PhD and Nick Agoff, MD ('00), prepared the photographs.

Do you know where these classmates are?

Gunther Antes ('74)  Patrick Browne ('97)  George Buchan ('65)  Alicia Buyco ('67)
Arthur Cambell ('62)  David Campbell('71)  John Combs ('65)  Peter Dillard ('78)
Arden Evanger ('65)  Eugene Hall ('65)  Richard Hopkins('73)  Margaret Jones('65)
Hugh Lancaster ('78)  Desiree Langel('98)  Denise Larson ('91)  Elizabeth Layne ('82)
Ivan LeCompte ('60)  Melanie Markarian('98)  Selma Myhre ('85)  Adolf Orina(69)
Nigel Palmer('78)  Mary Parlier ('74)  Gibson Parrish II ('82)  Robert Pierce ('98)
Sieghart Ponhold ('75)  Walter Ponhold('79)  Mary Richardson ('61)  Alexander Robertson ('62)
Brian Schnell('90)  Susumu Sekiguchi ('63)  Shelley Tepper(89)  Donald Thursh('63)

- **Department of Pathology Seminars.** Do you work near the UW campus? Are you planning a visit to the Seattle area? You are invited to attend our seminars and conferences. A current schedule is located on the Department of Pathology website.

- **Networking with your UW colleagues.** The Departments of Pathology and Laboratory Medicine maintain online directories for clinical and research faculty.

Employment Resources

**POSTINGS**

You can place your job opening here by contacting the Residency Director.

- AP/CP Pathologist Contact: Carol Cattron; Pathologists' Regional Laboratory, PO Box 956, Lewiston, ID 83501 800-443-5180 (9/30/02)
- Asst. Professor, Pathology Contact: Nancy B. Kiviat, MD, Chief, Dept. of Pathology; Harborview Medical Center, Seattle, WA (9/26/02)
- Director of Cytopathology Contact: Steven L. Spitalnik, M.D., Professor and Chair; University of Rochester School of Medicine and Dentistry, Rochester, NY 716-275-3184 (9/24/2002)
- Cytopathologist Contact: Steven L. Spitalnik, M.D., Professor and Chair; University of Rochester School of Medicine and Dentistry, Rochester, New York, 716-275-3184 (9/24/2002)
- AP/CP Pathologist Contact: Richard Long, MD; Kadlec Medical Center, Richland, WA. Phone: 509-942-2649 Fax: 509-942-2669 (9/20/2002)
- Potential Medical Director Position Contact: Tony Pate; New York Pathology Practice; Phone: 800-809-4450 Fax: 706-597-1436 (9/20/2002)
- AP/CP Pathologist Contact: Susan Zweifel, Physician Recruitment Coordinator; Miami County Pathologists, Ltd., at Upper Valley Medical Center, Troy, OH 800-203-4362 (8/27/2002)
Recent Graduates

In early June each year we celebrate the graduation of residents and fellows from our training program. Some will continue with subspecialty training. Some will pursue their research interests, which may have begun in their undergraduate years. Many will begin community practice. And surely some will enter academic medicine. Would you like to see where our graduates have gone for the past five years? Click here.

Verifications & Updates

Updating your credentials? Changing jobs? Verifications are handled promptly by contacting:

Michelle Rickard, Residency Manager
Pathology Residency Program
University of Washington
Box 356100, 1959 NE Pacific
Seattle, WA 98195-6100
Phone: 206-543-4359 FAX: 206-543-4919

Just moving?
Contact Michelle by email.

Web Addresses
UW Residency Director: residency@pathology.washington.edu
Dept. of Pathology Seminars Schedule: www.pathology.washington.edu/seminars/
Dept. of Pathology Faculty: www.pathology.washington.edu/faculty/
Laboratory Medicine Faculty: depts.washington.edu/labweb/dept/staff/faculty.html
Recent Graduates: www.pathology.washington.edu/academics/residency/AlumniB.html
Residency Manager: residency@pathology.washington.edu
Affiliated Hospitals

University of Washington Medical Center (UWMC)

UWMC is a 450-bed, tertiary-care referral center and consistently ranks as one of the best U.S. primary-care hospitals by US News & World Report. Patients from across the Pacific Northwest seek its medical expertise; many have rare diseases, uncommon variants of disease, or receive new or unusual treatment modalities. Neonatal intensive care, radiation therapy, artificial dialysis, open heart surgery, an imaging center, multi-organ transplant, and clinical research are major services provided by the hospital. Our staff of pathologists, consultants and residents review approximately 240 autopsies, 25,000 surgical specimens, 4,000 referrals and consultations, and 1,700 cytogenetic cases each year. (www.washington.edu/medical/)

Harborview Medical Center (HMC)

This 340 bed hospital is operated and staffed by the University of Washington Medical School. It is nationally renowned for its trauma, burn and cardiac care units. It is the only Level I trauma center in the state of Washington. The hospital serves the greater Seattle area and the adjacent northwestern states including Alaska. With the completion of the long range capital improvement project there has been substantial expansion of the hospital including Anatomic Pathology and the clinical labs which are located in newly renovated quarters. The hospital houses the cytology laboratory for Harborview and UWMC. The King County Medical Examiner’s office, which is located in Harborview, is under the directorship of Dr. Richard Harruff. (www.washington.edu/medical/hmc/index.html)

VA Puget Sound Health Care System (VA)

The VA Puget Sound Health Care System is a 488-bed hospital providing general medical care for veterans from Washington, Idaho, and Alaska. Pathologists in the Anatomic Pathology Division examine more than 5,500 surgical specimens each year, and perform about 100 autopsies. A new cytopathology service began in July 1999. The staff members integrate service, teaching and research responsibilities and dedicate themselves to various training programs involving pathology residents, surgical residents, and medical students. The general VA patient population emphasizes disorders of the alimentary, cardiovascular, genitourinary, immunohematopoietic, integumentary, and respiratory systems, and the staff pathologists have consequently developed considerable interest and expertise in these areas. The bone marrow transplant patient population provides a rich spectrum of clinicopathologic disorders. Staff members and trainees participate in a variety of weekly conferences interacting with members of many clinical services. The weekly autopsy pathology conference is exceptionally well attended and enthusiastically received. Throughout the course of each training experience, trainees take responsibility for work commensurate with the respective level of knowledge and ability. (www.puget-sound.med.va.gov/)

Children’s Hospital and Regional Medical Center (CHRMC)

This 200-bed University of Washington affiliated hospital is the primary pediatric institution for the City of Seattle and is the main pediatric tertiary care center for the Northwest. It provides a wide variety of specialized clinics and departments for the diagnosis and treatment of infant, childhood and adolescent diseases. Laboratory staff and faculty are under the directorship of Dr. Joe C. Rutledge. Major areas of research interest include growth and development, congenital malformations, pediatric malignancies and genetic disorders. (www.chmc.org/)
Visiting Seattle

Read more about Seattle’s attractions. If you see bold, there is a web address at the end of this section.

Okay, you planned a day to see the sites of Seattle but there is so much to do you can’t possibly fit it all in. How can you see the most popular sites and a bit of the “real” Seattle as well? Seattle has an award winning transit system and the University of Washington whole-heartedly supports leaving the car at home with its U-Pass program. Let’s take a virtual tour.

From the University Inn walk 4 blocks east (toward the UW campus) to University Avenue and catch the #71 bus for the International District. This bus will take you across the University Avenue Bridge, spanning the Montlake Cut between Lake Washington and Lake Union. Bus fare is $1.25 off peak. If it is a weekend day, ask for a day pass to use all day. Points of interest along this route include Fred Hutchinson Cancer Research Center and REI, the mecca for outdoors enthusiasts. Once the bus reaches downtown, it will enter the tunnel under the city. You will get off at the end of the line at International District station on Jackson Street.

Once you are above ground it is a short walk south to see the sites of our “Chinatown”. Immigrants from across the Pacific Rim have figured very prominently in the historic development of Seattle from the very beginning nearly 150 years ago. The Wing Luke Asian Museum at 7th and Jackson has an excellent collection of art and history. You can pick up a snack at Uwajimaya, the largest Asian grocery and gift market in the Pacific Northwest. In your travels in this neighborhood you will also see the home of the winningest baseball team – the Seattle Mariners and Safeco Field. The Seahawks have just moved into their new home as well. The Amtrak station is located just north of the sports stadiums.

You can jump back on the bus or walk the few blocks to Pioneer Square. This is one of the most historical sections of Seattle and still reflects its role in the wild days of the Klondike Gold Rush. Visit the free National Historical Park at First and Main. Take in the Underground Tour to get a feel for just what is was like before the big fire in 1889. Above ground, Pioneer Square is home to many fine art galleries. Go down Washington Street toward the Sound and hop on the Waterfront Trolley.

As you ride along the edge of Elliott Bay you will notice the huge cranes used to load ocean-bound container ships. Seattle is a primary port for Pacific Rim international trade. You exit the trolley at the Madison Street station that is next to the ferry terminal. Riding the ferry across the Sound. You might be ready for a bit of lunch by now and you will be walking right by a Seattle institution – Ivar’s Acres of Clams (and other seafood) started by Hagland Ivar in 1939. He built the first aquarium and it is located a little further up the waterfront.

How about a little exercise to work off those acres of clams? Across from the aquarium is the Pike Hill Street Climb. Mosey along three levels shops with craftsmen and vendors selling anything you can imagine at the Pike Place Market. Watch out for those flying fish! Next to the Market is Hammering Man standing guard over the Seattle Art Museum and the new home of the Seattle Symphony, Benaroya Hall. In the main hall you can see a wonderful display of Dale Chihuly glass. If you have not done enough shopping by now, a short walk up Pike Street takes you to Westlake Center, Nordstrom’s and Pacific Place.
Okay, time to rest those feet again. At Westlake Center you can hop on the Monorail to the Seattle Center. Created in 1962 for the World’s Fair, this is much more than a huge movie set for an Elvis Presley movie. It is a 74-acre gathering place for all Seattleites. Of course, there is the famous Space Needle. Throughout the year the Center is home to community festivals like Bumbershoot, Northwest Folklife and Bite of Seattle. Kids of all ages like to congregate at the Pacific Science Center. And all around you is the sound of music, from rock and roll at the Experience Music Project to the Seattle Opera. And it is home to the Seattle Sonics basketball team. Whew! And that’s only part of the fun found at the Center. When you are ready, make your way to the west side of Key Arena - you will pick up a bus to whisk you away for a tour of some of the most popular neighborhoods where our residents live.

You are going to get on a #15 bus on 1st Avenue North just outside the Key Arena. This will take you to the quaint neighborhood of Ballard. As you go across the Ballard Bridge, you can check to see if the fishing fleet is in at Fisherman’s Terminal on your left. You will want to get off the bus at 15th Avenue West and Northwest Market Street. If you ask, the bus driver will remind you. You will pay your fare as you leave and be sure to ask for a transfer. Seattle is a patchwork quilt of diverse neighborhoods. We celebrate our multi-cultural heritage every summer with Seafair, which runs from the first weekend in May through Labor Day. Ballard is historically the Scandinavian community and is celebrated at the Nordic Heritage Museum.

By now you might be a bit tired of being the tourist - let’s get you back to the University Inn. Hop on a #44 bus going to the University District. The stop is at the same corner you got off the #15 – just walk around the corner so you are actually on NW Market Street. This bus travels through many neighborhoods that are convenient to the University. At the top of the hill you are in Phinney Ridge. The Woodland Park Zoo is north off 45th. Once you go under Aurora Avenue/Hwy. 99, you are in Wallingford. Just north of this area is Green Lake. Both of these areas attract young couples just starting their families. Continuing east, and over I-5, is the University District. You will want the Roosevelt Avenue stop on 45th NW. Just walk down Roosevelt three blocks and you are back to the Inn.

We hope that you can see by this tour of Seattle that it is a thriving metropolitan area that offers a lot to its residents. The Seattle Chamber of Commerce provides a “Moving to Seattle” kit along with information on real estate, employment, schools and transportation. And if you really want to dig up information on Seattle, try the City of Seattle Office of Intergovernmental Relations website for Quick Facts and Citizen Information. And finally, check out the Emerald City at seattle.net

**Web Addresses**

Amtrak ~ www.amtrak.com

Bite of Seattle ~ www.biteofseattle.com/

Bumbershoot ~ bumbershoot.com/

Chihuly Bridges of Glass ~ www.chihuly.com

City of Seattle Office of Intergovernmental Relations~ www.ci.seattle.wa.us/ori/

Downtown Shopping ~ www.seattleinsider.com/shoppingguides/westlake.html

Elliott Bay Trolley ~ transit.metrokc.gov/am/vehicles/wfsc.html

Experience Music Project ~ emplive.com

Fred Hutchinson Cancer Research Center ~ www.fhcr.org/

Ivar’s Acres of Clams ~ www.ivars.net

King County Metro Transit ~ transit.metrokc.gov

Monorail ~ www.seattlemonorail.com/

National Historical Park ~ www.nps.gov/klse/

Nordic Heritage Museum ~ www.nordicmuseum.com/
Web Addresses Continued

Northwest Folklife Festival ~ www.nwfolklife.org
Seattle Opera ~ www.seattleopera.org

Pacific Science Center ~ www.pacsci.org
Seattle Seahawks ~ www.seahawks.com

Pike Place Market ~ www.seattlespublicmarket.com/
Seattle Sonics ~ nba.com/sonics/

REI ~ www.rei.com
Seattle Space Needle ~ www.spaceneedle.com

Seafair ~ www.seafair.com
Seattle Symphony ~ www.seattlesymphony.org

Seattle Aquarium ~ www.seattleaquarium.org
Underground Tour ~ www.undergroundtour.com

Seattle Art Museum ~ www.seattleartmuseum.org/
University Inn ~ www.universityinnseattle.com

Seattle Center ~ www.seattlecenter.com
UW UPass Program ~ www.washington.edu/upass/

Seattle Chamber of Commerce ~ www.seattlechamber.com/
Uwajimaya ~ uwajimaya.com

Seattle History ~ www.historylink.org
Washington State Ferries ~ www.wsdot.wa.gov/ferries/index.cfm

Seattle Mariners ~ www.mariners.org

Seattle Neighborhood Assn. ~ www.cityofseattle.net/neighborhoods/
Woodland Park Zoo ~ www.zoo.org

Seattle.net ~ www.seattle.net/

University of Washington
Pathology Residency Program
www.pathology.washington.edu/academics/residency