Welcome to the Department of Energy, Environmental & Chemical Engineering

The Department of Energy, Environmental and Chemical Engineering (EECE) brings together an interdisciplinary group of faculty to tackle global challenges related to energy, environment, and health. EECE provides integrated and multidisciplinary programs of scientific education in cutting-edge areas organized through four clusters: Aerosol Science and Engineering; Engineered Aquatic Processes; Metabolic Engineering and Systems Biology; and Multiscale Engineering. Degrees granted by the Department include: BS in Chemical Engineering; BS in Applied Sciences in Chemical Engineering; Master of Engineering in Energy, Environmental & Chemical Engineering; and PhD in Energy, Environmental & Chemical Engineering. We welcome you to browse through this handbook to review the details and requirements of the PhD program.

Department Facts
- 192 undergraduate students
- 31 Master of Engineering students
- 100 PhD students
- 17 tenured/tenure-track faculty
- 2,500 alumni
- 89 refereed journal publications (2015)
- $7.98 M in research expenditures (FY15)
- No. 6 by the latest National Research Council Ranking of Doctoral Programs in Environmental Engineering

Table of Contents

- Policies, Registration & Advising ............1
- Qualifying Examination .......................3
- Selection of Permanent Adviser ............3
- Requirements for PhD Degree ..............4
- Financial Assistance ..........................6
- Core Courses ..................................6
- Forms ..........................................8
- Staff ............................................8
- Faculty & Other Appointments ..........9

Policies & Regulations

A key objective of the PhD program is to promote cutting-edge multidisciplinary research and education in the thematic areas of Energy, Environmental & Chemical Engineering. The PhD student works in conjunction with his or her adviser in designing a program of study and research.

Students are admitted to the program by a competitive process, and they typically start in the fall semester. The student is normally supported in the first year by the School through the allocation made to the Department and in following years by the faculty adviser through research grants or other external fellowships. All students will be expected to serve as a teaching assistant (TA) in the second or third year of residency in the Department while they are working with their mentor on research.

Temporary advisers will be assigned when the graduate students are admitted. On arriving at WashU, the student will be advised by the temporary adviser on all academic procedural issues. The permanent faculty adviser will be assigned in December of the first year of residency in the program.

The following is a brief summary of the requirements for PhD students:
1) Base competency in core subject areas demonstrated by
2) Research rotations in first semester of study prior to choosing a permanent adviser
3) Demonstrated teaching experience as per graduate school teaching requirement
4) Minimum of 36 credits for coursework and minimum of 30 credits for PhD research; total of 72 credits to earn the PhD degree
5) Defend a proposal within 18 months of passing the qualifying examination
6) Defend PhD dissertation by making an open oral seminar presentation, followed by questions from the dissertation committee members

The purposes of this handbook are to provide guidance to PhD students in EECE and to inform students of department-specific policies.

Helpful website — Graduate School of Arts & Sciences: graduateschool.wustl.edu
First-year Advising

Academic Adviser
Each entering graduate student will be assigned a temporary academic adviser by the Department Chair. This adviser will be a full-time faculty member in EECE and will be responsible for acquainting the student with degree requirements, initial choice of classes as per guidelines, required laboratory rotations and seminar.

Research Rotation EECE 508 (Fall, First Year)

All first-year students will do research rotations by working in two laboratories as per availabilities developed based on faculty interests. After meeting with four or more professors to discuss research opportunities, students will submit three choices for the lab rotation. Based on the choices, the faculty, in coordination with the Graduate Program Director, will make the two assignments for the student rotation. The first-year PhD student will work for five weeks in each laboratory. Two rotations will be done in the fall semester. The student will sign up for the zero credit course — EECE 508 (S/F option), but students are expected to work at least six hours per week, with the details established in discussion with their mentor. Students will also be responsible for submitting a brief report based on the work conducted.

Research Rotation Preference Form

Based on the meeting with professors and the availability of projects, the students will fill out the Research Rotation Preference Form by Sept. 2 (4 pm to the department office). As part of completing the form, the students are required to meet with four or more potential faculty mentors and to record those meetings on the Research Rotation Preference Form. The students will identify at least three faculty laboratories as their choices for their rotation. The faculty choice should be made within the faculty list in the Research Rotation Preference Form. Faculty will also provide their preference information to the department.

Research Rotation Selection

The faculty will review the research rotation preference sheets and assign each student to two rotation mentors. Under exceptional circumstances, students will be allowed to update their rotation assignments (after the first rotation). Any such change must be approved by the Graduate Program Director, the Department Chair and the faculty duly informed.

Rotation Requirements

Each student will complete the two research rotations at the end of the first semester. At the conclusion of each rotation, the student will submit a 10-page report for that rotation to the EECE Graduate Program Coordinator, Ms. Rose Baxter. The two 10-page reports will be evaluated by the Committee of Graduate Study as part of the Qualifying Examination. The format of each report is specified in the following:

Up to 10 pages of single-space, Times New Roman pt. 12 font, one-inch margins, with the references separate (not included in the 10-page limit).

Report Sections:

- Summary (max. 250 words) half-page
- Motivation, Objectives & Significance 1 page
- Brief background 1-2 pages
- Work accomplished (methods, results and discussion) 3-5 pages
- Conclusions and recommendations for future work 1 page

* If a paper is being prepared or submitted, it may be attached in addition to the report.

Qualifying Examination

The EECE PhD qualifying examination is to be taken in May of the first year of study in the program. It is administered by the EECE Graduate Committee and department faculty as appointed by the Chair. Details of the examination and other requirements are provided:

1) Students should take the core EECE classes (currently as follows for fall 2015 entrants):
   a) Transport Phenomena in EECE (EECE 501, fall)
   b) Mathematical Methods in EECE (EECE 503, fall)
   c) Students should take elective classes in at least two cluster areas
   d) Do two independent research rotations in their first semester (EECE 508)
   e) The seminar (EECE 509) is required for all semesters of residency in the PhD program.
   f) Students must obtain a cumulative GPA of 3.25 to appear for the written examination (Cum. GPA ≥ 3.25). Only rigorous engineering or science courses will be counted in the cumulative GPA requirement calculations. Research course or independent study will not be counted in Cum. GPA.

2) Two written tests selected from a menu of four: aerosols, aquatics, metabolic engineering or multi-scale engineering.

The students are expected to be familiar with content covered in the following anchor courses of each cluster, respectively:

a) Aerosol Science & Engineering (EECE 504 Aerosol Science and Technology, fall)
   b) Aquatics (EECE 505 Aquatic Chemistry, fall)
   c) Metabolic & Systems Biology (EECE 506 Bioprocess Engineering, spring)
   d) Multi-scale Engineering (EECE501: Transport Phenomena, fall; and EECE 507 Kinetics and Reaction Engineering Principles, spring)

Each cluster-specific test question will be prepared and graded by at least two faculty members. The questions will be comprehensive and an in-depth evaluation of the students’ skill sets in the proposed area. Scores for each group will be normalized by the PhD committee to ensure grading is uniform across the clusters. The student should choose the two areas based on the research cluster that he or she wants to eventually work in (e.g., if a student is interested in working with faculty in the aerosols cluster, he or she should answer test a); and choose one other area for breadth. The qualifying exam guideline will be provided on the EECE graduate orientation day.

3) Do two independent research rotations (not with the same faculty). The faculty mentor will assign a Pass or Fail. A Pass from two different faculty members is needed to Pass the qualifying examination. This will be based on reports submitted to the faculty mentors at the end of the respective research rotation.

4) For an oral examination, questioning will not rehearse the performance in written exams — but instead evaluate for independent thinking and communication skills. The student should start the session with a five-minute (verbal with two slides) presentation of his or her research interests. Following this, the oral examination committee will ask questions to judge the capabilities of the student.

The final outcome of the EECE PhD qualifying examination will be determined by the EECE faculty based on the recommendation of the EECE Graduate Committee. The student can receive a Pass/Conditional Pass/Fail grade for the examination.

If the student failed the EECE PhD qualifying examination, he or she will be awarded an Masters of Engineering degree by the end of August (first year) based on the coursework and research to be conducted in the summer. Failed students may request to re-take the Qualifying Examination based on a petition. This petition should be submitted in writing to the Graduate Program Director within a week of receiving notification. The decision to re-take will be based on the student’s performance (e.g., GPA, written and oral qualifying examinations, research rotations, and feedback from the faculty and the student’s advisor) and will be made by the Department Chair and the Graduate Program Director. It should be noted that the student has no guarantee of financial support from the Department in the interim period (until the EECE PhD qualifying exam is passed).

Regarding Conditional Pass, if students fail to satisfy the condition from the decision letter of the qualifying exam within one year, the students will be advised to withdraw from the PhD program and financial support will be terminated.

Selection of Permanent Adviser

After completing the second rotation by Nov. 30 of the first year, students will submit their top four choices for an adviser on the Permanent Adviser Choice Form to the EECE Graduate Program Coordinator. At the same time, each faculty member will notify the Graduate Program Director of (a) the number of students that he or she wishes to advise and can support beginning in September 2015 and (b) his or her ranked preferences of students to advise. Shortly, the faculty will make the permanent adviser assignments. Students will begin research with their permanent adviser in December. At the end of the first semester (December of the first academic year), students should find their permanent advisers. If they cannot find a permanent adviser, they will be automatically be on their probation period. If a student cannot find a permanent adviser by the end of May of their first year, the student will be withdrawn from the PhD program.
Requirements for PhD Degree

Academic Requirements
Candidates for this degree must complete a total of 72 credits beyond the bachelor’s degree. Of these, a minimum of 36 must be graduate coursework and a minimum of 30 must be doctoral thesis research units. To be admitted to candidacy, students must have completed at least 18 credits at WashU, have an overall GPA equal or greater than 3.25 and pass the qualifying examination. The student must also have completed the research rotations and have selected a permanent adviser.

Transfer Credits: At most, nine graduate credits in a master’s program from another university may be counted as transfer credits toward the required 36 units of coursework.

Maximum Research Units per Semester: At most, nine units of research units may be taken in a semester.

Seminar Credits: The one-unit EECE seminar course may be taken for graduate coursework credit in up to six semesters for a total of six units.

Seminar Credits: The one-unit EECE seminar course may be taken for graduate coursework credit in up to six semesters for a total of six units.

Independent Study Credits: At most, three units of coursework may be taken as graduate independent study. An independent study must be entirely separate from work done as part of the graduate thesis research. The student should prepare a proposed plan of study to be completed, and this plan must be described in the Independent Study Petition Form approved by the independent study instructor, student’s adviser, Graduate Program Director and Department Chair for the independent study credits to count toward the 36 required units of coursework. This credit will not be counted toward the cumulative GPA for a qualification exam requirement.

400-level Courses: Courses must be 500-level graduate courses, except for up to three 400-level courses, provided that they are approved by the Graduate Program Director and Department Chair.

Thesis Proposal (must be completed within 18 months after qualifying exam)
Following successful completion of the qualifying examination, the student and advisor will decide on a suitable problem whereupon the student will prepare a comprehensive written research proposal that includes a thorough survey of the field, a discussion of those areas needing further research, and a tentative but clear definition of the proposed research. Results of preliminary studies or feasibility studies should be included. The format and guidelines of the PhD thesis proposal are included in the last portion of this section. This proposal will be submitted to the Thesis Committee at least one week prior to a Thesis Proposal Examination consisting of an oral presentation and questions before the committee. For students entered since Fall 2012, four of the five must be tenured or tenure-track Washington University faculty, one of these four may be a member of the Emeritus faculty. The fifth member must have a doctoral degree and an active research program, whether at Washington University, at another university, in government, or in industry. Three of the five must come from the student’s degree program; at least one of the five must not.

The committee is appointed by the Dean of the Graduate School upon the request of the Department Chair or Graduate Program Director. Any exceptions to the normal composition of the committee should be discussed with the Graduate Program Director and be approved by the Dean of the Graduate School. The thesis proposal should be successfully presented within 18 months of passing the Qualifying Examination and at least 12 months prior to graduation. The student must meet the thesis committee (either as a group or individually) annually or submit an annual report to the thesis committee. The annual report can consist of one to two pages of the student’s research progress summary.

A student who has passed the Thesis Proposal Examination, completed 30 units of required coursework toward the PhD degree and published or submitted at least one peer-reviewed manuscript from the thesis research is eligible to receive an MS degree. The publication and submission of the manuscript must be with the approval of the research adviser. Students must submit their request to receive the MS degree at least one year before the thesis defense.

The following guidelines are recommended for the PhD Thesis Proposal:
1) The main body of the proposal should include:
   • Executive summary (no more than one page)
   • Introduction (no more than five pages)
   • Research objectives (no more than two pages)
   • Preliminary work (no more than five pages in the body of the proposal, additional preliminary data or papers can be included in the Appendices)
   • Research plan (no more than 15 pages)
   • Timeline (no more than one page)
   • References (as needed)

2) The following Appendices should be included at the end of the proposal:
   • List of courses taken and to be taken with grades
   • TA experience
   • A short CV of the student highlighting conference presentations and journal papers (published/submitted/to be submitted)
   • Copies of papers (optional)

3) Font: Times New Roman
   Font size: no less than 11 points
   Line spacing: single-spaced
   Page margin: one-inch margin around the pages

PhD Students are referred to the National Science Foundation (NSF) Guidelines for Proposal Writing Document as a reference.

Teaching Assistant Requirement
All students must serve as a teaching assistant or assist in some teaching activity in the Department for at least two semesters prior to graduation; in some cases, a student may be required to serve as a teaching assistant in more than two semesters. The Department has in place a fair process to assign students as teaching assistants. This will normally be done after the first year and after having passed the Qualifying Examination. In serving as a teaching assistant, students should meet the Graduate School-wide Teaching Requirement for PhD Candidates; details of fulfilling teaching requirements are described in the Teaching Requirement Form with Policy Statement on graduateSchool.wustl.edu.

The TA duties may include, but are not limited to: giving an actual lecture in an undergraduate class with the instructor in attendance, introducing/interpreting laboratory exercises, or conducting formal help sessions before exams. TAs will also be expected to hold one-on-one office hours and participate in grading homework assignments and exams. Both the students and the instructor will evaluate each TA’s performance, and the Graduate Studies Committee will use these evaluations to determine whether the teaching requirement has been fulfilled for that semester. All the PhD candidates are also required to attend one of TA-training workshops offered by Teaching Center for the formal pedagogical training prior to or during their first semester as TAs in EECE.

PhD candidates shall also accumulate teaching experience at the advanced level. Presenting one’s research in formal settings including/interpreting laboratory exercises, or conducting lectures in an undergraduate class with the instructor in attendance, introducing/interpreting laboratory exercises, or conducting TA training workshops. PhD candidates shall also accumulate teaching experience at the advanced level. Presenting one’s research in formal settings including/or international conference (this last requirement may be waived upon approval of the Graduate Studies Committee).

During the semester, PhD students will perform teaching assistant duties in addition to the normal coursework and research duties that are expected by the research advisor.

Thesis Defense
Upon completion of the thesis, candidates must present the thesis in a public forum and successfully defend the thesis before their Thesis Committee. Students must submit their completed thesis to the Committee at least two weeks prior to the defense. Without the approval of the committee members two weeks in advance, the defense process cannot be proceeded and the room will not be reserved. The student should also have submitted at least one paper to a peer-reviewed journal prior to defending his or her thesis. Normally students are expected to have at least one paper accepted in a peer-reviewed journal, and at least another paper submitted prior to graduation. Presentation at national conferences is also encouraged. At least four committee members must be present at the defense (including the chair). Members of the Dissertation Defense Committee normally attend in person, but one of the five (or, in case of an emergency, one of the four) members may attend virtually instead. Otherwise, the student must reschedule the proposal/thesis defense. This is based on students entered since Fall 2012. Students who entered before Fall 2012 need one more committee compared to the requirement compared to students who entered Fall 2012.
Financial Assistance

All full-time PhD students in good standing will receive financial assistance – in the first year as a departmental fellowship, and in subsequent years through a research assistantship from the adviser or through independent fellowships. Students are expected to discuss their financial aid needs before finalizing their choice of an adviser. Academic achievements and satisfactory performance in research and other assignments while at WashU are the primary factors governing continuation of financial aid.

Students who are placed on academic suspension will automatically have their financial assistance cancelled, effective with the date of suspension.

Research assistants are paid a regular monthly stipend. During the academic year, a research assistant is considered to be employed half-time on a research project and, as such, is normally not permitted to register for more than nine hours of graduate credit per semester after the first year. A minimum of 20 hours of work per week is required on the research project.

However, graduate assistants whose thesis research coincides or overlaps with their project assignment are expected to devote more than this minimum effort to research, and, in fact, the student’s diligence and devotion will be important factors in renewal of the assistantships. It is important to note that it is the prerogative of the research adviser to terminate a research assistantship at any time for unsatisfactory performance.

Research assistantships are continued during the summer and are renewable for the next year at the discretion of the research adviser. Summer appointments are paid at the same rate as the academic year, but full-time effort (minimum of 40 hours per week) is expected.

Tax Liability

The taxability of the various types of awards described above is determined by current policy of the U.S. Internal Revenue Service (IRS). It is prudent to assume that all stipends are fully taxable and that tax will be withheld. Questions concerning any individual’s tax liability must be referred to the IRS.

Outside Employment

Holders of fellowships, traineeships and assistantships are required to devote full-time effort to graduate studies. They are not permitted to engage in any outside employment without special permission of the adviser and Department Chair.

Time Off

Graduate students receiving financial support are expected to commit themselves fully to their studies and research. Intersession periods listed in the university Academic Calendar denote times when classes are not in session, and graduate students are expected to devote themselves full-time to their research during these periods. Students on full support are permitted to take off a maximum of two weeks during the calendar year for holidays, interview trips, etc. Additional time off can be arranged in discussion with the research adviser, but may result in a reduction of the student’s stipend. During the first year in the program when students do not have a permanent adviser, they should consult their first-year advisers to schedule any time off. Absence of research assistants must be scheduled so as not to impede the progress of an ongoing research project and should be approved by the research adviser.

Other Policies

Seminars

Each year the department sponsors or participates in a series of seminars by visiting lecturers and WashU faculty and students.

All full-time graduate students are required to enroll in EECE 509 - Graduate Seminar, which is an S/F course carrying one unit of coursework credit. Full-time graduate students may receive up to six units of coursework credit for EECE 509. A passing grade (S) is required for each semester for all full-time students, and is awarded by regular attendance at these events.

If a student plans to miss or miss a seminar, they are required to notify Ms. Rose Baxter with a reason for the same. Missing more than a certain number of seminars may require the student to make up work to obtain a passing grade. If a student misses more than a certain number of seminars in a given semester without a legitimate excuse, the student will obtain an “F” grade.

Copying Service

Graduate students may not charge copying work to the department or a research project without prior authorization. Personal copies can be charged to a student’s personal account. The cost of copying and binding dissertations beyond the three copies required by the department is considered a personal obligation.

Annual Reviews

All graduate students should meet with their advisers on a routine basis. Every summer, the student will undergo a formal review of his or her progress by the adviser. A standard form given by the EECE department will be used. The faculty member is responsible for completing the review, and it is the student’s responsibility to remind the adviser to ensure that these reviews must be completed annually by the end of June every year.

Core Courses

Students formulate their course program in consultation with their adviser. The student is expected to be proficient in the following core courses. PhD students are strongly urged to take at least three graduate-level classes (400-level or higher) outside the Department. These courses can be selected based on discussion with their adviser and research interest areas.

Courses are offered to PhD students in two required core areas. The courses corresponding to these areas are:

- a) EECE 501 
- b) EECE 553

These courses will provide the basic knowledge that is expected of all PhD students in the Department. These classes will provide the fundamentals and the foundation in the topical areas that are essential for successful study and conduct of research in energy, environmental and chemical engineering. A student can opt to take more advanced classes after discussion with the faculty teaching these classes. However, the student is responsible for passing the Qualifying Examination, which will be based on integrated content of the two core subject areas above.

First-year students will also register for EECE 508 Research Rotation (zero credits, S/F grade, first semester). During every semester of residency, students should register for EECE 509 Seminar in EECE (one credit, S/F grade).

Students can avail themselves of course sequences in areas of specialization in the Department. Students are encouraged to review the same on the Department website (eece.wustl.edu), discuss with their advisers and be advised of their own opportunities. In the first year of the PhD program, students must take courses offered by the EECE department. However, exceptions can be made only by submitting a petition letter to the department.

Suggested Course Selections for the First-year PhD Students

Fall Semester (10 credits)

1) EECE 501 Transport Phenomena in EECE
2) EECE 503 Mathematical Methods in EECE
3) Elective Classes (select from one or more Graduate Level Elective Classes below based on discussions with temporary adviser, noting needs for PhD qualifying exam)
4) EECE 508 Research Rotations (zero credits)
5) EECE 509 Seminar in EECE (one credit, Pass/Fail)

Spring Semester (10 credits)

1) Three or four Elective Classes (select from Graduate-level Elective Classes below based on discussions with permanent adviser, noting needs for PhD qualifying exam)
2) EECE 509 Seminar in EECE (one credit, Pass/Fail)

Other Policies

Academic achievements and satisfactory performance in research and other assignments while at WashU are the primary factors governing continuation of financial aid.

Research assistants are paid a regular monthly stipend. During the academic year, a research assistant is considered to be employed half-time on a research project and, as such, is normally not permitted to register for more than nine hours of graduate credit per semester after the first year. A minimum of 20 hours of work per week is required on the research project.

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Holders of fellowships, traineeships and assistantships are required to devote full-time effort to graduate studies. They are not permitted to engage in any outside employment without special permission of the adviser and Department Chair.

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Courses are offered to PhD students in two required core areas. The courses corresponding to these areas are:

- a) EECE 501 Transport Phenomena in EECE
- b) EECE 553 Mathematical Methods in EECE

These courses will provide the basic knowledge that is expected of all PhD students in the Department. These classes will provide the fundamentals and the foundation in the topical areas that are essential for successful study and conduct of research in energy, environmental and chemical engineering. A student can opt to take more advanced classes after discussion with the faculty teaching these classes. However, the student is responsible for passing the Qualifying Examination, which will be based on integrated content of the two core subject areas above.

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Suggested Course Selections for the First-year PhD Students

Fall Semester (10 credits)

1) EECE 501 Transport Phenomena in EECE
2) EECE 503 Mathematical Methods in EECE
3) Elective Classes (select from one or more Graduate Level Elective Classes below based on discussions with temporary adviser, noting needs for PhD qualifying exam)
4) EECE 508 Research Rotations (zero credits)
5) EECE 509 Seminar in EECE (one credit, Pass/Fail)

Spring Semester (10 credits)

1) Three or four Elective Classes (select from Graduate-level Elective Classes below based on discussions with permanent adviser, noting needs for PhD qualifying exam)
2) EECE 509 Seminar in EECE (one credit, Pass/Fail)
### Forms

**List of Forms to be Completed by Students during Period of Study**

<table>
<thead>
<tr>
<th>Form</th>
<th>Date Due</th>
<th>Receive from &amp; Submit to</th>
</tr>
</thead>
<tbody>
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<td>HRMS Personal Information</td>
<td>Upon arrival</td>
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<td>Research Rotation Form</td>
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</tr>
<tr>
<td>Exit Document</td>
<td>Last day at WashU</td>
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**List of Forms Completed by Department Faculty or Staff**

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### FY 2016-17 Academic Year and Student Services

**EECE Staff**

- **Christine Tilley**  
  Department Administrator  
  935-6170  
  christin@wustl.edu

**Contact for:**  
- Grant submissions & management  
- Payroll & human resources  
- Budget/financial inquiries

- **Rose Baxter**  
  Graduate Program Coordinator  
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  rbaxter@seas.wustl.edu

**Contact for:**  
- Graduate student administration  
- Department course listing maintenance  
- Visa & visiting scholar administration  
- Survey compilation  
- ABET coordination

- **Kim Coleman**  
  Assistant to the Chair  
  935-5548  
  kcole@seas.wustl.edu

**Contact for:**  
- Website updates & fliers

**Beth Mehringer**  
Accounting Specialist  
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**Contact for:**  
- Paycheck distribution  
- Parking passes  
- Brauer Hall keys  
- Paycheck distribution

**Trisha Sutton**  
Office & Accounting Coordinator  
935-4082  
sutton@seas.wustl.edu

**Contact for:**  
- Travel reimbursements  
- Local reimbursements (check requests)  
- Travel advances  
- Payment of interdepartmental invoices (IDs)

**Lynn Zaftmsan**  
Administrative Assistant  
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zaftmsan@seas.wustl.edu

**Contact for:**  
- Department seminars  
- ECEE bulletin board updates  
- CCCU inquiries & website updates

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### PhD Student Handbook 2015-2016

- **Jin Keun Yoon**  
  Assistant Professor  
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  jklong@wustl.edu

**Contact for:**  
- AEROSOL SCIENCE & ENGINEERING
- Aquatic Processes
- Metabolic Engineering & Systems Biology
- Multiscale Phenomena

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### Other Appointments

- **James Brennan**  
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- **William Darby**  
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- **Ray Dharin**  
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- **Benjamin Nunnery**  
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**Jillian E. Russell**  
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935-6070  
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**Contact for:**  
- PhD Qualifying Examination Result  
- Final Program Form (student will receive form for confirmation)  
- PhD Student Handbook 2015-2016

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**List of Forms Completed by Department Faculty or Staff**

<table>
<thead>
<tr>
<th>Form</th>
<th>Date Due</th>
<th>Receive from &amp; Submit to</th>
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<tbody>
<tr>
<td>PhD Qualifying Examination Result</td>
<td>May of first year</td>
<td></td>
</tr>
<tr>
<td>Thesis Proposal Result</td>
<td>Upon Completion of Exam</td>
<td></td>
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<tr>
<td>Annual Student Review (section for student response submitted to adviser)</td>
<td>By end of June (every year)</td>
<td></td>
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<tr>
<td>Final Program Form (student will receive form for confirmation)</td>
<td>Three weeks before Thesis Defense</td>
<td></td>
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2015 Graduates