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## PROGRAM INFORMATION AND APPLICATION FORMS

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### Computational Engineering Graduate Program The University of Tennessee at Chattanooga

#### Part 1 – General Information for Applicants

The UTC Computational Engineering Program (<http://www.utc.edu/cme>) offers two degrees:

- 1) *Master of Science in Engineering (Concentration in Computational Engineering)*
- 2) *Doctor of Philosophy (Computational Engineering)*

Applicants for either degree program must submit *two separate applications*: one for admission to the *Graduate School*, and a second for admission to the *Computational Engineering Program*.

1) *Admission to Graduate School* - The current, complete, and official admission requirements and procedures of the Graduate School are available **only** from the Graduate School Office (For application procedures and forms, visit the Graduate School website at <http://www.utc.edu/GraduateSchool>). Although you may indicate your interest in Computational Engineering in the Graduate School application, please be aware that admission to the Graduate School does not imply application or ensure admission to the Computational Engineering Program.

2) *Admission to Computational Engineering Program* – To apply for admission to the Computational Engineering Program, please use the three application forms included at the end of this packet. These materials are also available from the Computational Engineering Program (<http://www.utc.edu/cme>) and from the Graduate School.

#### Part 2 – The Computational Engineering Program

The Computational Engineering Program is a multidisciplinary degree program involving disciplines associated with 1) an engineering application area, 2) scientific supercomputing, and 3) mathematics of computation. Each student's program of study, including possible prerequisite requirements, is tailored to his or her educational background and research goals. Each applicant is advised about any prerequisite courses before entering the program. Further information is available at (<http://www.utc.edu/cme>).

*Admission to the Program is competitive and depends on both qualifications and the availability of open positions for new graduate students.*

##### A) Admission Requirements (Computational Engineering Program)

- 1) In addition to meeting all admission requirements of the UTC Graduate School, applicants for admission to the Computational Engineering Program must have a bachelor's or master's degree from a regionally accredited college or university, or foreign equivalent, with major in one of the following disciplines: 1) engineering, 2) computer science, 3) mathematics, or 4) one of the physical sciences.
- 2) Admission also requires a favorable recommendation from the Computational Engineering Screening Committee.

##### B) Application Procedures (Computational Engineering Program)

**Program Application** - To apply for admission to the Computational Engineering Program, the following materials should be sent directly to **The UTC Graduate School, The University of Tennessee at Chattanooga, 615 McCallie Ave., Department 5305, Chattanooga, TN 37403**:

- 1) Program Application Form (Computational Engineering)
- 2) Statement of Purpose Form
- 3) Three Recommendation Forms

These forms are included at the end of this packet. The Application Form and Statement of Purpose Form should be completed by the applicant. The applicant should also arrange for three people to complete and send the Recommendation Form directly to the UTC Graduate School at the above address.

At the time of application, applicants must also send a copy of the Application Form and Statement of Purpose to *the SimCenter: National Center for Computational Engineering, University of Tennessee at Chattanooga, Attn: Dr. Tim Swafford, 701 East M.L. King Blvd., Chattanooga, TN 37403*. Alternatively, electronic versions of these forms may be sent directly by E-mail to [Tim-Swafford@utc.edu](mailto:Tim-Swafford@utc.edu). This will greatly facilitate the timely evaluation of your application by the screening committee.

### ***C) Notification of Interest***

Applicants who are interested in the Program but have not yet decided to apply are strongly encouraged to notify the Computational Engineering Program Coordinator of their possible interest in the Program at the earliest possible date. Please download and complete the Notification of Interest Form at <http://www.utc.edu/college-engineering-computer-science/pdfs/cme-program-notification-of-interest.pdf>. You may send the completed form as an E-mail attachment to [Tim-Swofford@utc.edu](mailto:Tim-Swofford@utc.edu), or by mail to *the SimCenter: National Center for Computational Engineering, University of Tennessee at Chattanooga, Attn: Dr. Tim Swafford, 701 East M.L. King Blvd., Chattanooga, TN 37403.*

### **Part 3 – Selection Process**

Applications for admission are reviewed carefully by the program faculty. The Computational Engineering Program generally has fewer openings than qualified applicants, and consequently admission is selective. In addition to student qualifications, admission to the program depends in part on the availability of faculty to serve as principle research advisors, and this in turn determines the number and range in background of prospective students who can be accommodated. Financial assistance for graduate students is also linked to funding from specific research projects. The selection process must therefore focus on students whose academic backgrounds best match specific research objectives of the program faculty at the time of application. Successful applicants generally have cumulative grade point averages of 3.0/4.0 or higher.

***NOTE - The faculty of the program very much appreciates each applicant who expresses interest in the Computational Engineering Program. To applicants who cannot be accepted for graduate study in light of the above selection process, the faculty wishes every success in pursuing further education.***

### **Part 4 – Financial Assistance**

Graduate students in Computational Engineering typically fulfill the degree requirements for research by working in association with the multidisciplinary research team at the UTC SimCenter. Both full-time and part-time students usually receive some kind of financial assistance during all or part of their graduate educational activities. Some possible sources of financial assistance are discussed below.

***UTC and Non-University Sources:*** Financial assistance is often available to graduate students from fellowships, scholarships and other sources both inside and outside the University. Information regarding financial assistance is available at the UTC Graduate School website: <http://www.utc.edu/graduate-school/student-resources/assistantships.php>.

***Employer-Sponsored Graduate Study:*** Students who are full-time employees can often participate in graduate study sponsored by their employers. Many employers offer tuition-reimbursement programs and flexible working hours supporting graduate education, usually on a part-time basis. The Computational Engineering Program encourages such students, who may engage in coursework and research related to their employment.

*Students whose employer does not offer a tuition-reimbursement program may apply for a waiver of maintenance fees and tuition by indicating this on their application form.*

***SimCenter Graduate Research Assistantships (GRAs):*** The SimCenter: National Center for Computational Engineering offers a limited number of Graduate Research Assistantships supporting full-time students through part-time work on ongoing SimCenter research projects. These GRAs provide full-time students an annual stipend for part-time work in research while pursuing a graduate degree in Computational Engineering. Appointments are normally on a half-time basis requiring 20 hours of service each week. Annual stipends for half-time service range from \$15,000 for students just beginning graduate study to \$18,000 for students whose academic background has progressed to the master's level or equivalent. In addition to the stipend, these appointments offer a waiver of maintenance fees and tuition for the period of appointment, in accordance with university policy. These appointments also include a benefit of health insurance for the student.

*If you wish to apply for a SimCenter GRA, please indicate this on your Program Application Form.*

**PROGRAM APPLICATION FORM (COMPUTATIONAL ENGINEERING)**

**Computational Engineering Graduate Program**  
The University of Tennessee at Chattanooga

Send the completed form to **The UTC Graduate School, The University of Tennessee at Chattanooga, 615 McCallie Ave., Department 5305, Chattanooga, TN 37403**. Applicants should also send a copy of the Application Form and Statement of Purpose to the **SimCenter: National Center for Computational Engineering, University of Tennessee at Chattanooga, Attn: Dr. Tim Swafford, 701 East M.L. King Blvd., Chattanooga, TN 37403**. Alternatively, electronic versions of these forms **may be** sent directly by E-mail to **Tim-Swafford@utc.edu**. This will greatly facilitate the timely evaluation of your application by the screening committee.

APPLICANT: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_  
(Last) (First) (Middle)

Semester you wish to enter: Fall ( ) Spring ( ) Summer ( ) Year: \_\_\_\_\_

Date of Birth: \_\_\_\_\_ Country of Citizenship: \_\_\_\_\_ Tennessee Resident? YES  NO   
(mm/dd/yyyy)

CONTACT INFORMATION: (Please give information indicating how we may best contact you.)

Telephone: Home \_\_\_\_\_ Work \_\_\_\_\_ Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

How did you learn of our Computational Engineering Program? \_\_\_\_\_

DEGREE PROGRAM: I am interested in [ Part-time  Full-Time  ] graduate study in the [ MS  PhD  ] program.

EDUCATION:

1.	Institution	Degree/Major	Date Conferred/Anticipated	Cum. Grade Point Average
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____

GRE SCORES: Verbal \_\_\_\_\_ Quantitative \_\_\_\_\_ Analytical \_\_\_\_\_ TOEFL (if required): \_\_\_\_\_

EMPLOYMENT:

If employed, give your current employer, occupation, and location \_\_\_\_\_

FINANCIAL ASSISTANCE

Financial aid is often available to graduate students from: 1) fellowships, scholarships and other sources outside the University, 2) sources discussed in the UTC Graduate School website: <http://www.utc.edu/graduate-school/student-resources/assistantships.php>, 3) employer-sponsored tuition reimbursement programs, and 4) SimCenter Graduate Research Assistantships. Further information is given in the Computational Engineering Program Application Packet and at the SimCenter website: <http://www.utc.edu/SimCenter>.

**Application for SimCenter Graduate Research Assistantship:** If you are seeking to become a full-time student and wish to apply for a SimCenter Graduate Research Assistantship (GRA), please check here \_\_\_\_\_.

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**STATEMENT OF PURPOSE FORM (COMPUTATIONAL ENGINEERING)**

**Computational Engineering Graduate Program**

The University of Tennessee at Chattanooga

**APPLICANT:** On this sheet, please write a detailed and carefully edited statement indicating your purpose and objective in pursuing graduate study at the UTC Graduate School of Computational Engineering and employment and academic experiences relevant to your chosen field of study. If you are presently in a graduate program at UTC or another university, please explain why you plan to change.

Send the completed form to **The UTC Graduate School, The University of Tennessee at Chattanooga, 615 McCallie Ave., Department 5305, Chattanooga, TN 37403**. Applicants should also send a copy of the Application Form and Statement of Purpose to the **SimCenter: National Center for Computational Engineering, University of Tennessee at Chattanooga, Attn: Dr. Tim Swafford, 701 East M.L. King Blvd., Chattanooga, TN 37403**. Alternatively, electronic versions of these forms may be sent directly by E-mail to **Tim-Swafford@utc.edu**.

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**APPLICANT:** Please provide the information requested below. If your statement will be submitted on a separate sheet, please attach this form. (Please type or print.)

Full Name: Mr. ( ) Ms. ( )

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*Last*

*First*

*Middle*

I certify that I completed the above/attached essay and that this information is current.

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*Signature*

*Date*

**RECOMMENDATION FORM (COMPUTATIONAL ENGINEERING)**

**Computational Engineering Graduate Program  
The University of Tennessee at Chattanooga**

**APPLICANT:** Please complete **PART A** of this form and then give it to the person recommending you.

**EVALUATOR:** Please complete **PART B** of this form and send it to **The UTC Graduate School, The University of Tennessee at Chattanooga, 615 McCallie Ave., Department 5305, Chattanooga, TN 37403**. If the actual recommendation is submitted on a separate sheet, please attach this form.

**PART A - REQUEST FOR EVALUATION (To be completed by applicant):**

Full Name of Applicant: Mr. ( ) Ms. ( )

\_\_\_\_\_ Last \_\_\_\_\_ First \_\_\_\_\_ Middle \_\_\_\_\_

Date of Birth: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Degree you wish to seek (M.S./Ph.D.): \_\_\_\_\_

Semester you wish to enter: Fall ( ) Spring ( ) Summer ( ) Year \_\_\_\_\_

**Waiver of Access: I agree that this recommendation will remain confidential.**

Signature of Applicant (Optional) \_\_\_\_\_

**PART B - EVALUATION OF APPLICANT (To be completed by person recommending applicant):**

- How well do you know the applicant? How long have you known the applicant and in what capacity?
  
- Please give your opinion of the applicant's qualifications to do graduate-level work in his/her field.

**Please complete the following.**

	Exceptional	Above Average	Average	Below Average	No Basis for Judgement
Intellectual Ability					
Writing Ability					
Speaking Ability					
Knowledge of Proposed Area of Study					
Motivation					
Emotional Stability					
Ability to Work Independently					
Teaching Ability					

	Doctoral Program	Master's Program	Other (Please Specify)
I would strongly recommend for			
I would recommend for			
I would recommend with reservations for			
I would not recommend for			

Indicate applicant's promise for success in a graduate program. ( ) Outstanding ( ) Above Average ( ) Average ( ) Poor ( )

SIGNATURE

DATE

INSTITUTION

NAME (please print or type)

TITLE

ADDRESS