

P.C. Rossin College of Engineering and Applied Science

Graduate Programs

Listed below are the degree programs offered through the P.C. Rossin College of Engineering and Applied Science at Lehigh University. To ensure that your application is handled expeditiously, please collect and return your application, transcripts, and letters of recommendation **TO YOUR PROPOSED PROGRAM** listed below in the enclosed large envelope. ALL APPLICATIONS FOR FALL ADMISSION WITH FINANCIAL AID REQUIREMENTS MUST BE SUBMITTED BY JANUARY 15th.

Department of Chemical Engineering

111 Research Drive, Bethlehem, PA 18015-4791

Phone: (610) 758-4261; Fax: (610) 758-5057

Internet: inchegs@lehigh.edu

Degrees Available:

M.S., M.E., MBA & E, Ph.D. in Chemical Engineering

M.S., M.E., MBA&E, Ph.D. in Polymer Science and Engineering

Department of Civil and Environmental Engineering

13 East Packer Avenue, Bethlehem, PA 18015-3176

Phone: (610) 758-3530; Fax: (610) 758-6405

Internet: incee@lehigh.edu

Degrees Available:

M.S., M.E., MBA & E, Ph.D. in Civil Engineering

M.S., M.E., MBA & E, Ph.D. in Environmental Engineering

M.S., Ph.D. in Structural Engineering

Department of Computer Science and Engineering

19 Memorial Drive West, Bethlehem, PA 18015-3084

Phone: (610) 758-4072; Fax: (610) 758-6279

Internet: graduate-coordinator@cse.lehigh.edu

Degrees Available:

M.S., MBA&E, Ph.D. in Computer Science

M.S., MBA&E, Ph.D. in Computer Engineering

Department of Electrical and Computer Engineering

19 Memorial Drive West, Bethlehem, PA 18015-3084

Phone: (610) 758-4072; Fax: (610) 758-6279

Internet: graduate-coordinator@ecce.lehigh.edu

Degrees Available:

M.S., MBA&E, Ph.D. in Computer Engineering

M.S., M.E., MBA&E, Ph.D. in Electrical Engineering

M.S. in Photonics

M.S. in Wireless & Network Engineering

Department of Industrial & Systems Engineering

200 West Packer Avenue, Bethlehem, PA 18015-1582

Phone: (610) 758-4051; Fax: (610) 758-4886

Internet: inime@lehigh.edu

Degrees Available:

M.S., M.E., MBA & E, Ph.D. in Industrial Engineering

M.S., M.E. in Information & Systems Engineering

M.S. in Management Science

M.S. in Quality Engineering

M.S. in Analytical Finance

Center for Manufacturing Systems Engineering

200 West Packer Avenue, Bethlehem, PA 18015-3176

Phone: (610) 758-5157; Fax: (610) 758-6527

Internet: inmse@lehigh.edu

Degrees Available:

M.S., MBA & E in Manufacturing Systems Engineering

Department of Materials Science & Engineering

5 East Packer Avenue, Bethlehem, PA 18015-3195

Phone: (610) 758-4222; Fax: (610) 758-4244

Internet: inmatsci@lehigh.edu

Degrees Available:

M.S., M.E., MBA & E, Ph.D. in Materials Science & Engineering

M.S., M.E., MBA&E, Ph.D. in Polymer Science and Engineering

M.S. in Photonics

Department of Mechanical Engineering and Mechanics

19 Memorial Drive West, Bethlehem, PA 18015-3085

Phone: (610) 758-4139; Fax: (610) 758-6224

Internet: inmegrad@lehigh.edu

Degrees Available:

M.S., M.E., MBA & E, Ph.D. in Mechanical Engineering

M.S., Ph.D. in Computational and Engineering Mechanics

M.S., Ph.D. in Applied Mathematics

M.S., M.E., MBA&E, Ph.D. in Polymer Science and Engineering

Center for Polymer Science and Engineering

111 Research Drive, Bethlehem, PA 18015-4732

Phone: (610) 758-3590; Fax: (610) 758-5880

Internet: incspe@lehigh.edu

Degrees Available:

M.S., M.E., MBA&E, Ph.D. in Polymer Science and Engineering

This is an interdisciplinary degree program. You must first be admitted to one of the following departments:

Chemical Engineering, Materials Science and Engineering,

Mechanical Engineering, Chemistry (College of Arts and Sciences),

or Physics (College of Arts and Sciences).

Please send all application materials to the appropriate department address listed above. General questions regarding Engineering Graduate Studies at Lehigh can be directed to:

P.C. Rossin College of Engineering and Applied Science

Office of Graduate Studies and Research

19 Memorial Drive West, Bethlehem, PA 18015-3045

Phone: (610) 758-6430; Fax: (610) 758-5623; E-mail: ineas@lehigh.edu

World Wide Web: <http://www3.lehigh.edu/engineering/default.asp>

INFORMATION FOR APPLICANTS

A graduate of an accredited College or University may be considered for admission to the graduate programs in the P.C. Rossin College of Engineering and Applied Science. The decision to admit a student rests with the applicant's proposed program and stands for one year following the first semester for which admission was offered. After one year, the department reserves the right to reconsider the original offer.

An applicant may enter the graduate program as a *regular* or as an *associate* graduate student. Only regular graduate students are candidates for graduate degrees. International students will not qualify for a visa under associate status. Students who do not wish to enter a degree program may be admitted with non-degree status; an appropriate application form can be obtained from the Office of Graduate Studies. Except for qualified Lehigh undergraduates, only applicants who have been officially admitted as regular, associate, or non-degree students may register for graduate courses.

In general, associate status is granted to those applicants who apply after the department's deadline for applications, who do not completely qualify for regular status because of some absent or incomplete element of their application, or who submit inadequate documentation of competencies in certain key areas. However, since each department's classification and requirements of associate students is different, you must check with the department to determine if you qualify to be admitted under associate status. Associate students must complete the first nine consecutive credit hours with at most one grade level below B-. They will not be permitted to continue if they receive a grade below C. After nine credit hours of coursework, associate students must petition for regular status. Individual departments may require more rigorous probationary standards.

Policy of Equality

It is the policy of Lehigh University to provide equal opportunity on the basis of merit and without discrimination because of race, color, religion, sex, age, national origin, citizenship status, handicap, or veteran status.

Applicants must submit ALL of the following in the enclosed, large envelope:

Application for Admission. All applicants must complete and submit the enclosed application.

Application Fee. The application fee of \$65 is not refundable. Applications will not be considered unless this fee is received. Please make a check or money order payable to Lehigh University, or fill in the Credit Card information on the reverse side of the data sheet.

Application for Financial Aid. Fall applicants who desire financial aid should complete the Application for Financial Aid and RETURN IT WITH ALL ADMISSIONS MATERIALS BY JANUARY 15th. **This deadline supersedes all other deadlines.** Fellowships, scholarships, and departmental assistantships are awarded in conjunction with the admission process; no separate application is required. Applicants who are applying for financial aid are considered for all forms of support for which they are eligible.

Transcripts. Applicants should request that the Registrar of each college or university attended provide an **official transcript**. For work in progress, a final transcript must be submitted at the end of the term. If institutional policies require submission of official transcripts directly to Lehigh University, they should be sent to the specific graduate program of the applicant.

Letters of Recommendation. Two recommendation forms are enclosed for use by individuals qualified to evaluate the applicant's academic achievements and potential for graduate studies. Additional recommendation forms are available upon request. Recommendations from professors are preferred; however, letters from employers, supervisors, or professional associates are accepted. Students who are presently enrolled in an M.S. or Ph.D. program should submit a letter of recommendation from their research advisor. Recommenders are asked to return their letters directly to the applicant. Instructions are provided on the recommendation form.

Test Scores. Applicants should inquire of their prospective departments which tests are required. All test scores including the GRE must be submitted by applicants to the specific program. International students whose native language is not English should refer to the International Student Information on page 3 for more information about test scores. GRE information may be obtained from:

Educational Testing Service

*Rosedale Road
Princeton, NJ 08541
Telephone: (609) 921-9000;
Fax:(609)734-5410*

INTERNATIONAL STUDENT APPLICANTS

Applicants to the graduate programs in the P.C. Rossin College of Engineering and Applied Science must hold a bachelor's degree from an accredited U.S. institution or an equivalent foreign degree. Applicants must submit all documents listed on the preceding page, including the application fee in the form of a check or money-order from a U.S. affiliated banking institution.

Letters of Recommendation. At least one recommendation should be from faculty of the undergraduate institution attended by the applicant, and another from a thesis advisor if applicable.

Transcripts. Applicants should submit official academic records in the form of transcripts or grade sheets, as well as official copies of degrees awarded. Official copies of credentials must be validated by a school administrative officer (Registrar or other official). Unless prohibited by college or university policy, official documents from institutions should be assembled by the applicant and included with all other application materials; otherwise they should be forwarded directly to the specific program of the applicant. Documents should be issued in the original language with an official translation attached.

Proof of English Language Proficiency. Lehigh University requires that all international applicants whose native language is not English take the TOEFL (Test of English as a Foreign Language). Minimum scores for admission are as follows: 550 for paper based scores, 213 for computer based scores. A Test of Written English (TWE) is strongly recommended, and applicants for teaching assistantships are also required to present scores from the Test of Spoken English (TSE). TOEFL and TWE information may be obtained from:

Test of English as a Foreign Language
P.O. Box 6151
Princeton, NJ 08541-6155
Telephone: 1-877-863-3546 (toll free)
Fax: (609)771-7500

The official score report should be sent to the specific graduate program at Lehigh University. Lehigh's institutional code is 2365. If official test scores cannot be provided, notarized copies are required.

Sources of Support. All international students are required to submit proof of financial support. Only an original or notarized bank statement will be accepted as proof of support. Applicants who have been awarded financial aid from Lehigh University should indicate so on the financial guarantee. All additional sources should be listed, including sources of support for all accompanying dependents (see page containing "Application for Financial Aid" for required amounts).

Visa. Visas can only be granted to students admitted as regular students. Associate students will not receive a visa. The following items are required before immigration documents can be issued:

- Original or notarized financial guarantee.
- TOEFL scores. Original or notarized test scores are required.
- TSE scores. The test score is required of applicants for teaching assistantships only. Original or notarized test scores are required. A minimum of 200 is required for a teaching assistantship.

Questions regarding immigration matters should be directed to:

Office of International Students & Scholars
Lehigh University, Coxe Hall
32 Sayre Drive
Bethlehem, PA 18015-3198
Telephone (610) 758-4859; Fax (610) 758-5156; Internet: intnl@lehigh.edu



P.C. Rossin College of Engineering and Applied Science Graduate Programs
Data Sheet

PERSONAL DATA

please print or type

Social Security Number _____

Last (Family) Name _____ First _____ Middle _____

Current Mailing Address: _____ Until When? _____

Number and Street _____

City _____ State _____ Zip Code _____ Country _____

Telephone _____ E-mail Address _____
(Area Code)

Permanent Address: _____ Telephone _____

Number and Street _____

City _____ State _____ Zip Code _____ Country _____

Date of Birth ____/____/____ Place of Birth _____
month / day / year City / State Country

Citizenship: U.S. Citizen U.S. Permanent Resident Other _____
Country

Type of Visa _____ Held Will Apply For

The following information is voluntary and will not affect the decision for admission. Lehigh University does not discriminate.

Sex: Female Male

Ethnic Origin: African American Asian Black Hispanic Native American White Other

PROGRAM INFORMATION

Admission Status Regular Associate Full-time Student Part-time Student (explain)

Date of Entrance Spring 20____ Summer I 20____ Summer II 20____ Fall 20____

Degree Sought (Check **ONE**):

- | | |
|---|---|
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Chemical Engineering | <input type="checkbox"/> M.S. in Management Science |
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Civil Engineering | <input type="checkbox"/> M.S. in Quality Engineering |
| <input type="checkbox"/> M.S. <input type="checkbox"/> Ph.D. in Structural Engineering | <input type="checkbox"/> M.S. in Analytical Finance |
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Environmental Engineering | <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Materials Science & Engineering |
| <input type="checkbox"/> M.S. <input type="checkbox"/> Ph.D. in Computer Engineering | <input type="checkbox"/> M.S. Photonics (Materials Science & Engineering) |
| <input type="checkbox"/> M.S. <input type="checkbox"/> Ph.D. in Computer Science | <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Mechanical Engineering |
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Electrical Engineering | <input type="checkbox"/> M.S. <input type="checkbox"/> Ph.D. in Computational & Engineering Mechanics |
| <input type="checkbox"/> M.S. in Photonics (Electrical & Computer Engineering) | <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Polymer Science & Engineering |
| <input type="checkbox"/> M.S. in Wireless & Network Engr. (Elec. & Comp. Engr.) | Engineering Discipline _____ |
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. <input type="checkbox"/> Ph.D. in Industrial Engineering | <input type="checkbox"/> Master of Business Administration & Engineering |
| <input type="checkbox"/> M.S. in Manufacturing Systems Engineering | Engineering Discipline _____ |
| <input type="checkbox"/> M.S. <input type="checkbox"/> M.E. in Information and Systems Engineering | |

Area of Specialization _____

Have you ever attended Lehigh University? (If yes, list dates) _____

Have you ever applied for a graduate degree at Lehigh University? (If yes, list dates) _____

TEST DATA

	Score*	Date Taken / scheduled
GRE-V		
GRE-Q		
GRE-A/GRE-W		
TOEFL		
TSE		
GMAT		

Please note: You may self-report scores to help us expedite your application, but **OFFICIAL SCORES MUST BE SUBMITTED for your application to be complete.*

Have you arranged to have your test scores sent to Lehigh University? Yes No

EDUCATIONAL**BACKGROUND** List in reverse chronological order all schools attended.

Name & Location of Institutions	Date of Attendance		Degree Awarded	Expected Date of Degree Month / Year
	From	To		

Undergraduate Major _____

Graduate and Professional Degrees _____

Field _____

Field _____

Scholastic Honors _____

Some graduate work, no degree

State your undergraduate grade point average (on a 4.0 scale) _____

No graduate work

TRANSCRIPTS

List the colleges and universities from which transcripts have been requested:

1. _____
2. _____
3. _____
4. _____
5. _____

Name _____

If transcript will be sent under a different name, please specify.

RECOMMENDATIONS

List the names of two people who have been asked to provide letters of recommendation:

Name and Position _____

Name and Position _____

Address _____

Address _____

E-Mail Address _____

E-Mail Address _____

Relationship to Applicant _____

Relationship to Applicant _____

WORK EXPERIENCE

Please list (on a separate sheet) in reverse chronological order employment (including summer work since secondary school by Employer, Position / Grade, and Dates.

SUPPLEMENTARY

List the following on a separate sheet:

**EDUCATIONAL
INFORMATION**Extracurricular / community activities: list major extracurricular and community activities or offices held.
Publications: list articles and books published, research work completed or in progress, or other creative work.
Membership: list membership in learned and professional societies.

ESSAY

On a separate sheet, provide a summary of your career objectives and work experience with reference to the chosen field of graduate study.

**SOURCE OF
INFORMATION**How did you learn about graduate study at Lehigh University?

**FORM OF
APPLICATION
PAYMENT** Check or Money Order enclosed for \$65 Check or Money Order # _____ Charge Credit Card Visa

Name on Card _____

 Mastercard

Card # _____

 American Express

Expiration Date _____

I certify that all above information is correct to the best of my knowledge._____
Signature_____
Date



P.C. Rossin College of Engineering and Applied Science Graduate Programs

Letter of Recommendation

TO BE COMPLETED

BY THE APPLICANT

Name of Applicant Last (Family) First Middle

Current Address

Field of Study Degree Sought

WAIVER:

Under present federal law, an enrolled or former student has, with certain exceptions, access to all educational records in his or her permanent file. The Admissions Committee has decided to give the applicant the choice of waiving this right. If you wish to waive the right to examine this evaluation at a later date, please sign below; it will then be taken in confidence. If left unsigned, you will have access to this evaluation upon enrollment. In no way will this decision affect consideration of your application.

Signature Date

TO THE APPLICANT

Address an envelope to yourself. Be sure to give both the form and the envelope to your recommender. Return the sealed envelope to the specific Lehigh University Engineering Department that you are applying to with your completed application materials.

TO THE RECOMMENDER

The person whose name appears above is applying for admission to a graduate program in the P.C. Rossin College of Engineering and Applied Science at Lehigh University. This form is provided for your convenience. Please complete it and return directly to the student as soon as possible in the envelope provided. The student's application cannot be reviewed until your completed recommendation form has been received.

An evaluation such as this can be withheld from the student only if the student has signed the above waiver statement.

If you do not know the student well enough to complete this form, please feel free to say so; such frankness will not prejudice the applicant's chance of admission.

TO BE COMPLETED

(Please Print)

BY THE

Name of person who is recommending student

RECOMMENDER

Position / Title

Organization

Address

Telephone Number () E-mail Address

How long have you known the applicant? years months

Under what circumstances have you known the applicant?

Relate any experiences you can point to that indicate the applicant's level of creativity, motivation, and initiative.

	Outstanding (Top 2%)	Excellent (Top 10%)	Good (Top 35%)	Fair (Top 50%)	Weak (Lower 50%)	Unable to Judge
Intellectual Ability						
Breadth of Knowledge						
Quantitative Ability						
Maturity						
Interpersonal Skills						
Oral Skills						
Writing Skills						
Organizational Ability						

Overall evaluation of the student's ability to handle a graduate program.

- Recommended without reservation
- Recommended with reservation
- Not recommended

Nature of reservation _____

 Signature

 Date

Please use the space provided below for additional comments.

Please return your recommendation in the envelope provided after sealing and signing your name on the flap. Thank you for your assistance.



P.C. Rossin College of Engineering and Applied Science Graduate Programs

Letter of Recommendation

TO BE COMPLETED

BY THE APPLICANT

Name of Applicant Last (Family) First Middle

Current Address

Field of Study Degree Sought

WAIVER:

Under present federal law, an enrolled or former student has, with certain exceptions, access to all educational records in his or her permanent file. The Admissions Committee has decided to give the applicant the choice of waiving this right. If you wish to waive the right to examine this evaluation at a later date, please sign below; it will then be taken in confidence. If left unsigned, you will have access to this evaluation upon enrollment. In no way will this decision affect consideration of your application.

Signature Date

TO THE APPLICANT

Address the provided envelope to yourself. Be sure to give both the form and the envelope to your recommender. Return the sealed envelope to the specific Lehigh University Engineering Department that you are applying to with your completed application materials.

TO THE RECOMMENDER

The person whose name appears above is applying for admission to a graduate program in the P.C. Rossin College of Engineering and Applied Science at Lehigh University. This form is provided for your convenience. Please complete it and return directly to the student as soon as possible in the envelope provided. The student's application cannot be reviewed until your completed recommendation form has been received.

An evaluation such as this can be withheld from the student only if the student has signed the above waiver statement.

If you do not know the student well enough to complete this form, please feel free to say so; such frankness will not prejudice the applicant's chance of admission.

TO BE COMPLETED

(Please Print)

BY THE

Name of person who is recommending student

RECOMMENDER

Position / Title

Organization

Address

Telephone Number () E-mail Address

How long have you known the applicant? years months

Under what circumstances have you known the applicant?

Relate any experiences you can point to that indicate the applicant's level of creativity, motivation, and initiative.

	Outstanding (Top 2%)	Excellent (Top 10%)	Good (Top 35%)	Fair (Top 50%)	Weak (Lower 50%)	Unable to Judge
Intellectual Ability						
Breadth of Knowledge						
Quantitative Ability						
Maturity						
Interpersonal Skills						
Oral Skills						
Writing Skills						
Organizational Ability						

Overall evaluation of the student's ability to handle a graduate program.

- Recommended without reservation
- Recommended with reservation
- Not recommended

Nature of reservation _____

 Signature

 Date

Please use the space provided below for additional comments.

Please return your recommendation in the envelope provided after sealing and signing your name on the flap. Thank you for your assistance.



P.C. Rossin College of Engineering and Applied Science Graduate Programs

Application for Financial Aid

PERSONAL INFORMATION

Complete this section only if you are applying for financial aid.

Social Security Number

Name Last (Family) First Middle

Current Mailing Address

City State Zip Code Country

Full Time Part Time

Semester

Department to which you are applying

Citizenship: U.S. Permanent Resident Other _____
Country

INSTRUCTIONS

This information is required of all applicants who wish to be considered for financial aid from Lehigh University. All inquires regarding assistance should be directed to the departments to which you are applying. Applications for federal or state financial aid should be directed to the Financial Aid Office, 218 West Packer Avenue, Bethlehem, PA 18015-1588.

FINANCIAL AID

A substantial but limited amount of financial aid is available for regular graduate students. Please refer to the other side of this page for information on types of financial aid available.

- Type(s) of aid that Fellowship
 You are applying for: Scholarship
 Teaching Assistantship
 Graduate Assistantship
 Research Assistantship

INTERNATIONAL APPLICANTS

ESTIMATED COSTS PER ACADEMIC YEAR

Tuition and fee costs for the 2006-07 academic year only and may increase for the 2007-2008 academic year.

Appropriate Expenses		Appropriate Financial Support (in U.S. Dollars)	
Tuition (academic year)	\$17,820	Personal Funds	_____
Books, supplies, fees	\$1,200	Support from Family	_____
Health Insurance	\$999	Applicant's Government	_____
Twelve month living expenses (estimated \$900 / month)	\$10,800		
Dependents	_____	U.S. Government	_____
\$2,944 / year insurance spouse			
\$2,470 / year insurance child		Lehigh University	_____
Other	_____	Other	_____
TOTAL	\$ _____	TOTAL	\$ _____

I certify that the above information is accurate and complete. I also understand that misrepresentation may be cause for denial of financial aid.

Signature of Applicant

Date

DOMESTIC APPLICANTS

FINANCIAL AID

Financial Aid for graduate students can be either academic or non-academic. Teaching assistantships, research assistantships, graduate assistantships, fellowships and scholarships are academic awards may be made by the individual academic departments. Non-academic awards are graduate assistantships unrelated to a particular area of study.

NON-ACADEMIC AWARDS

Graduate students may apply directly to administrative offices for graduate assistantships unrelated to their areas of study. The availability of these assistantships is limited and based upon the needs of the individual departments.

LOANS

Students may apply for Stafford Loans and Perkins Loans through the Office of Financial Aid located at 218 West Packer Avenue. These aid sources are limited to the basis of financial need.

INTERNATIONAL APPLICANTS

Visa regulations require that international applicants have sufficient funds available for the duration of their entire program of study. If offered admission and accepting the offer, they must provide verification of financial support for themselves and their accompanying dependents for the first calendar year. Except for teaching and research assistantship appointments, international students should not plan on other employment as a source of support. For students from countries that impose restrictions on the exchange and release of funds for study in the United States, approval of release of funds will be requested if the applicant accepts the offer of admission from Lehigh University.

DOMESTIC AND INTERNATIONAL APPLICANTS

ADMISSION DEADLINES

Applications for admission as a regular graduate student must be filed by July 15 for the following fall semester or by December 1 for the spring semester. Regular applications for the first and second summer sessions are accepted until April 30 and May 30, respectively. **Certain departments or programs have earlier deadlines: applicants should consult their individual departments. As noted earlier, applications for financial aid must be received by January 15 for fall admission.**

ACADEMIC AWARDS

To apply for loans contact the Office of Financial Aid at Lehigh University. Applications for fellowships, scholarships, research assistantships, teaching assistantships, and graduate assistantships to begin in the fall term must be filed no later than January 15. In addition to their stipends, graduate students holding half-time teaching appointments will receive a tuition award. Fellowship holders also receive a tuition award plus a stipend. Scholarship recipients are awarded tuition. Research assistants generally receive a stipend and tuition award.