

# ENGLISH TRAINING IN ENGINEERING (ETIE)

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# INTRODUCTION

- Established in 2006
- To provide outstanding international engineering students an opportunity to enhance their English skills and to study advanced engineering courses at Purdue University Calumet (PUC).

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# INTRODUCTION

- Current partnerships with top Chinese universities:
  - ✓ Beijing University of Technology (BIT)
  - ✓ Central South University (CSU)
  - ✓ Nanjing University of Aerospace and Aeronautics (NUAA)
  - ✓ Sichuan University (SCU)
  - ✓ University of Electronic Science and Technology of China (UESTC)
  - ✓ North China Electric Power University (NCEPU)
  - ✓ Northwestern Polytechnical University (NWPU)
  - ✓ Beijing Jiaotong University (BJTU)
  - ✓ Inner Mongolia University of Technology (IMUT)
  - ✓ University of Science and Technology Beijing (USTB)
  - ✓ Taiyuan University of Technology (TUT)
  - ✓ Guangdong University of Technology (GDUT)
  - ✓ Anhui University of Technology (AHUT)

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# ETIE PROGRAM TYPE A (3+1)

- Students: Current Junior
- Time: Fall and Spring semesters (August to May)
- Minimum course requirements per semester (12 credits/semester)
  - ✓ 1 English course (3 credits)
  - ✓ 1 Senior design (3 credits)
  - ✓ 2 Engineering courses (6 credits)
- Undergraduate degree from home Universities
- ETIE Certificate from PUC
- GRE is waived for admission to Master of Science in Engineering (MSE) Program at PUC



# ETIE PROGRAM TYPE B (4+0.5+1)

- Students: Current seniors or Graduate Students
- Time: One or two semesters
- Minimum course requirements per semester (12 credits/semester) :
  - ✓ 1 English course (3 credits)
  - ✓ 3 Engineering courses (9 credits)
- ETIE Certificate from PUC
- GRE is waived for admission to MSE Program at PUC
- Up to 4 graduate level engineering courses can be count for MSE degree



# ADMISSION REQUIREMENTS

- Outstanding students with the proof of English proficiency (CET4 required or others)
- Majors
  - ✓ Computer and Software Engineering
  - ✓ Civil Engineering
  - ✓ Electrical Engineering
  - ✓ Environmental Engineering
  - ✓ Mechanical Engineering
  - ✓ Mechatronic Engineering
  - ✓ Material Engineering
  - ✓ Thermal Energy Engineering
  - ✓ Vehicle Engineering



# MSE GRADUATE PROGRAM

- English requirements:
  - ✓ TOEFL: 77 internet-based test score with writing 18, speaking 18, Listening 14, and reading 19
  - ✓ IELTS: 6.5
- GPA: 3.0/4.0 (B average)
- Graduation requirements:
  - ✓ 30 Credits (10 courses) with GPA of 3.0/4.0 or better
  - ✓ Optional independent research studies or thesis research up to 9 credit hours



# ETIE DATA

- 218 students received ETIE Certificates 2006 – 2011
- 75% (164 students) continued at PUC for MSE degrees
  - ✓ 77% of 164 students worked as RA, TA, or student workers
- 138 students received MSE degree from PUC
  - ✓ 24 students are studying for PhD
  - ✓ 33 students are working in the U.S. companies
  - ✓ 38 students are working in China
- Many students received research grants and awards
- Many attended international conferences and have paper publications





# ETIE OUTCOMES

- Examples of other universities where ETIE students are studying for PhD or Master degrees
  - ✓ Arizona State University
  - ✓ Columbia University
  - ✓ Duke University
  - ✓ Harvard University
  - ✓ Illinois Institute of Technology
  - ✓ Michigan University
  - ✓ Missouri University of Science and Technology
  - ✓ New York University
  - ✓ Purdue University West Lafayette
  - ✓ The State University of NY at Buffalo
  - ✓ University of South California
  - ✓ Waseda University
  - ✓ North Carolina State University
  - ✓ Northeast University
  - ✓ University of North Carolina
  - ✓ University of California at Davis
  - ✓ University of Iowa
  - ✓ University of Utah
  - ✓ The University of Tokyo
  - ✓ Nanyang Technological University
  - ✓ GISMA Business School, Germany
  - ✓ RWTH Aachen, Germany
  - ✓ University College London
  - ✓ Texas A&M university
  - ✓ University of Pennsylvania

# ETIE OUTCOMES

- Examples of companies where ETIE students are employed at the United States
  - ✓ Accenture, Minneapolis, Minnesota
  - ✓ Bank of America, New York
  - ✓ Cisco Systems, San Francisco
  - ✓ Goldman Sachs
  - ✓ Interative Network Technologies, Chicago
  - ✓ Illinois Tool Works. Richton Pacteria, Seattle
  - ✓ Illinois Tool Works, Illinois
  - ✓ LSI Corporation, San Francisco
  - ✓ Livex Lighting, INC, Morristown, NJ
  - ✓ Let's Order Now, New York
  - ✓ Niama Reisser, Ohio
  - ✓ Nanaimo Studio. Chicago
  - ✓ Park, Illinois
  - ✓ Stemco LP, Longview, Texas



# ETIE OUTCOMES

- Examples of companies where ETIE students are employed in China
  - ✓ Agricultural Bank of China, Beijing
  - ✓ China Academy of Transportation Sciences, Beijing
  - ✓ Fosun Capital investment, Shanghai
  - ✓ Hangzhou Danfoss
  - ✓ Intel, China
  - ✓ NUAA, Nanjing
  - ✓ Original Force, Beijing
  - ✓ P&G, Beijing
  - ✓ Siemens, Beijing
  - ✓ Shanghai Schneider Electric
  - ✓ Shanghai Carrier
  - ✓ Toshiba Research, China
  - ✓ Ministry of Industry and Information Technology Computer and Microelectronics Research Center



# WHY ETIE ?

- Significant improvement of English
- Exceptional hands-on experience
- Great research experiences
- Excellent engineering faculty
- Prestige Purdue engineering degrees
- Opportunities for RA, TA, student workers, and internships
- Opportunities for international competitions such as Moon Buggy, Mini Baja, etc.
- Low cost
- Good location

<http://webs.purduecal.edu/etie/>

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# ETIE STUDENT FEEDBACKS

- ✓ “这里有较好的师资和研究条件,正因为如此,才可以让我在3年的时间内有5篇论文。对于那些准备读PHD的同学, ETIE也是个很好的跳板。在这,有一个国内无法比拟的好处,可以直接去找教授面谈,这样会更容易给教授留下印象,在申请的过程中往往会起到决定性的作用”。 - Wei Wu
- ✓ “ETIE项目为我们提供一个很好平台,无论为以后留美学习还是工作都打下了基础。通过这个项目,我们不仅学到了实用的技能更加深对美国文化的认识,使人更快的成熟成长起来。” - Shan Ren



# ETIE STUDENT FEEDBACKS

- ✓ “很高兴自己能够参加ETIE项目. 在PUC做毕业设计的时期, ETIE这个项目给我们创造了和美国教授沟通交流的机会, 学习了很多关于在美国如何做研究的经验” – Tian Jiang
- ✓ “这里的毕设与国内的不同, 要做两个学期, 也就是一个学年, SeniorDesign是对自己大学所学知识的综合与应用。我的导师在整个的毕设过程中给了我很多的帮助, 记得那时候每个星期都要与导师讨论毕设问题。另外, 这里的SeniorDesign是团队协作的”。 - Bai Lin



# ETIE STUDENT FEEDBACKS

- ✓ “大四一年在普度学习时光很快乐，也很辛苦。正是这段经历让我后来渐渐喜欢上了所做的工作，所以决定投身于这方面的研究。在研究生的学习中能乐在其中。” – Dong Fu, BIT
- ✓ “美国的教育制度很好，学校就像一个服务机构，能够尽量解决我们的困难。虽然我们这个校区不大，但是感觉学的东西其实也不少。ETIE提供我们一个很好的平台，让我们能够展翅飞翔”。 - Hao Shen



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# ETIE STUDENT FEEDBACKS

- ✓ “ETIE项目对自费出国留学来说一个物美价廉的项目。说她物美，是因为她能提供学生优质的科研条件,为中国学生提供一个从单纯的理论学习到注重实际应用的转变平台，说她价廉，因为相对于其他的留学项目，ETIE项目是最省钱中的一个。ETIE项目有一套完善的管理系统，从接机那一刻开始，学生便能感觉到ETIE这个大家庭的温暖”。Weizhuo Zhao



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# ETIE STUDENT FEEDBACKS

- ✓ “偶然的机会加入ETIE这个项目，让自己获得了去面对更多机会和挑战的机会，感觉自己像一棵小树，从下向上慢慢展开枝叶，逐渐繁茂。但是永远不会忘记自己最初的根基，确实是从ETIE这个平台上生长出来的。” – Bin Wu
- ✓ “我学会了独立自主,懂得了如何更有效率的学习和工作。EITE每年举办的各种活动丰富了我们的生活，尤其是春晚，为我们在外的学子创造了在家的幸福与温暖。同时，ETIE老生和社区华人对新生的帮助使得新生能够更快的适应在美的生活。” - Niana Zhou



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# ETIE STUDENT FEEDBACKS

- ✓ “首先我觉得是教授们都非常友好，也非常耐心，我能从每位教授那里得到很多的知识，他们在学术上一丝不苟的精神也让我非常敬佩。第二点我想就是PurdueCal这个大家庭，学长学姐们早就准备好了为我们提供帮助，中国学生会还会经常组织各种活动，让大家在美国学好玩好。最后我觉得就是学校提供的各种服务，比如CareerServiceCenter和WritingCenter”。 - Xuesi Wang



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# ETIE STUDENT FEEDBACKS

- ✓ “有着届届优良传统的ETIE项目，无疑是最省心的出国项目。在这里不会孤单，也不会无助。这样的凝聚与团结也是未来过河的一叶扁舟，登高的一把扶梯！ - Ye Shi
- ✓ ETIE 梦想起飞的地方！ - Zhiyuan Li



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