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Protect Purdue Resources at https://protect.purdue.edu/

POTR 360 Computer Lab Open*

POTR 360, the EEE Computer Lab is now OPEN! It’s next door to the main EEE office. See attached agreement for student use of POTR 360.

- Key Pad Entry Code - PAYNEL, as in Prof. Lindsey Payne, who teaches EEE 29000 and EEE 49500M Urban Water Projects.
- EEE maintains this computer center for academic & social activities. Its use is a privilege reserved for EEE students and those enrolled in EEE courses to work, study, and access dedicated EEE computers. There are 12 desktop computers with internet access and a printer/scanner. The room contains additional tables, chairs, and whiteboards.
- Face masks are required. Hand sanitizer has been placed by each computer station.
- Please read the attached agreement sheet which details privileges and responsibilities of using this room. In general, be respectful to others and the property. Always log off of computers before leaving the room. Do not lock a computer for later use. Do not move or alter any of the computer systems.
- If you wish to place items on the wall, ask in the EEE Office for appropriate tacky putty. (No tape or staples.)
- Use discretion when determining if to print and how many copies to print.

College of Engineering Well-Being Survey

Recently, CoE students received an email about completing a well-being survey sent from the College of Engineering in partnership with Steps to Leaps and the Purdue Engineering Student Council (PESC). This survey focuses on overall well-being and the feedback received will be used to make actionable change within the College of Engineering. Complete this survey before November 29th. Survey Information: https://purdue.ca1.qualtrics.com/jfe/form/SV_0D6dnU2XxpSXEua.

EEE Student Advisory Council (SAC) Mid-semester Feedback Survey

The EEE Student Advisory Council (SAC) is looking for student feedback about EEE. All feedback is compiled and used within the report that Dr. Sutherland receives at the end of the academic year. Take the brief survey at: https://docs.google.com/forms/d/e/1FAIpQLSdSnMAhjDJBPOj55UdTPsnReAWnNVRioADOLaYY1YyQXsrIjQ/viewform

Nuts and Bolts of Summer Undergraduate Research Fellowship (SURF) Session*

SURF helps to provide a structured learning environment for undergraduate students to gain research experience and receive pay, present research discoveries, attend social events, and hone relevant skill under the guidance of faculty and graduate student mentors. SURF also facilitates students in career planning and scientific communication. SURF is an intensive 10-week research program which includes either full time (40 hours per week) or part time (20 hours per week) positions. At the end of the fellowship, you will participate in a SURF symposium in which the research project will be presented. Throughout the summer, you will receive support from your professor and graduate student mentor.

SURF participants will receive $5100 (full-time) or $2550 (part-time) stipend for their summer research. The program lasts from May 23rd to August 1st 2022. The application window is from January 10th through February 15th. For application or
Laboratory Assistant Position Opening (REEs Recovery)*

There is an immediate opening for a qualified undergraduate student to undertake techno-economic assessments to evaluate the performance of rare earth element (REEs) recovery processes. This position is being funded by a company. Activities may also include performing a comprehensive systems-wide analysis that considers variables such as feedstock inputs and infrastructure availability for gaining process efficiencies and reducing cost. Students pursuing a degree in environmental, chemical, materials, industrial, or biological engineering are especially encouraged to apply. Experience with processes, production systems, and techno-economic assessment preferred. Project duration is one year. A competitive hourly wage will be provided. If interested: Contact John Sutherland (jwsuther@purdue.edu)

Laboratory Assistant Position Opening (Engine Testing)*

An undergraduate research position is available immediately to develop environmental impact and cost estimates associated with diesel engine testing. Such testing occurs after an engine is assembled to assure proper functionality. “Hot engine testing” requires the use of fuel, fluids, and other consumables that are discarded after the test. In the long-term it is desirable (as some other companies have done) to transition to “virtual” engine validation, that is, perform the validation in a simulation environment. The information provided by this project will help support the company’s transition to virtual validation. Students pursuing a degree in mechanical engineering are especially encouraged to apply. Experience with manufacturing systems and techno-economic assessment preferred. Project duration is one year. A competitive hourly wage will be provided. If interested: Contact John Sutherland (jwsuther@purdue.edu)

LEED Green Associate (GA) Training

EEE students should understand that LEED is one professional certification. Earning a PE license in engineering requires considerably more education, knowledge and experience, and all EEE graduates are qualified to eventually earn a PE license, which is significantly more valuable. On occasion, an EEE student will ask about LEED. LEED is more within the domain of the Arch Engr group within Civil. The LEED Green Associate (GA) credential is the only entry level sustainability designation and shows employers and clients that you have certified knowledge in the green building industry. Most people can take a short course and pass the LEED certification test. As a courtesy, the following info is being provided. It is not required or necessarily endorsed. Contact info@leadinggreen.com if you have questions. See fees and Register for a live webinar or the on-demand recorded workshop completed anytime at your own pace at https://leadinggreen.com/online.

This course is instructed by a USGBC Faculty member. The USGBC charges a $100 (reduced for students) fee for the actual exam which can now be taken online from home. Cost: $200 - Students can use the coupon code ‘green’ for $50 off to a discounted price $150.

Middlebury School of the Environment Summer Program

Monterey, California, is a microcosm of the world’s environmental challenges and an exemplar of sustainability planning. This summer, build your capacities for problem solving and leadership in Monterey with the Middlebury School of the Environment. The Middlebury School of the Environment offers a six-week place-based curriculum in sustainability and leadership. You will earn credit for three Middlebury College courses which are transferable.

Join the Summer 2022 Middlebury School of the Environment’s program in Monterey, California. If interested in the program more information can be found: https://www.middlebury.edu/schools-abroad/summer-programs/school-environment. Scholarships are also available for the program on this website.
EEE Computer Lab/Student Room (Potter 360) Agreement

The EEE Student Room in Potter 360 (hereafter referred to as 360) is a place set aside for EEE students and students in EEE courses to work, study, and access dedicated EEE computers.

Use of 360 is a privilege and students are expected to treat the room and other students in the room with respect.

Use
360 is restricted to EEE students and students in EEE courses. It is NOT a general-purpose room for Purdue students.

While it does not have the atmosphere of a library, students should be considerate of others attempting to work and keep noise to a minimum.

EEE students can invite other Purdue engineering students to work with them in 360 for the purpose of group work or projects. EEE students who host non-EEE students are responsible for their guests.

IMPORTANT:
360 is secured by a keypad whose code will change every semester and should NEVER be distributed to anyone except at the discretion of EEE faculty and staff. Students who give out the key code may have their 360 access privileges revoked. DO NOT prop open the 360 door.

Books
The books are for student use, however, please do not remove from POTR 360.

Computers
The eleven computers (PC01-08 are running Windows 10, PC 09-11 are running Windows 7) are available for general use by EEE students. However, school work or EEE-related business takes priority and students using the computers for general purposes (web browsing, email) should log off if there is not another computer free. This is not a general use computer lab – we do monitor the computers and only EEE students and those in EEE classes should be using the computers.

Printing
The use of 360 printer is limited to school work and EEE-related business. It is currently a free resource offered by EEE. Please respect this free resource (and the environment) by printing only what is necessary. We will monitor print use; excessive use or use by students who are not EEE students or in EEE courses may result in page charges.

SEEE Office Space
The desk and file cabinet labeled for SEEE is for SEEE officer use only. The microwave and refrigerator are for use by all EEE students, but provided and managed by SEEE.
NUTS AND BOLTS OF THE SURF PROGRAM

OPEN TO ALL UNDERGRADUATES

Date: Tuesday, November 30th 2021
Time: 6:00 - 7:00 PM
Location: POTR Rm. 234

At the WORKSHOP, you will: Learn all about the process, strategies, and documents required to secure a SURF undergraduate researcher position
**SURF**
Summer Undergraduate Research Fellowship

**STUDENT INFORMATION**

**Summer 2022 Program Dates:** May 23 – Aug 1, 2022
The SURF program aims to provide a hands-on research experience for undergraduate students that will stimulate their interest in advanced education and research careers.

**WHAT IS SURF?**
SURF is an intensive 10-week program to advance students' research potential. During the program, you will conduct research activities 40 (full time) or 20 (part time) hours per week and participate in SURF symposium and professional development events, and complete research deliverables. Throughout the summer, you will receive support from your professor and graduate student mentor in the lab, and the EURO staff.

**PROGRAM TIMELINE**
- **January 10 - February 15:** SURF Application Window
- **March - April:** SURF placement announcement, offer letters acceptance
- **July 28 - 29:** SURF Symposium

**SURF 2022 Program Dates:** May 23 - August 1, 2022

**APPLICATION SYSTEM**
Explore research projects on the SURF undergraduate research database
**APPLY:** https://engineering.purdue.edu/Engr/Research/EURO/SURF

**PROGRAM STIPEND**
SURF participants receive $5100 (40 hours/week – full-time) or $2550 (20 hrs/week – part-time) stipend for their summer research

**BENEFITS FOR STUDENTS**
- SURF provides a structured learning environment for undergraduate students to gain research experience and receive pay, present research discoveries, attend social events, and hone relevant skills under the guidance of faculty and graduate student mentors
- SURF facilitates students in career planning and scientific communication

**CONTACT US:** (765) 496 2349 eur@purdue.edu POTTER ROOM 136

**EMBRACING DISCOVERY. UNLEASHING INNOVATION. MENTORING SCHOLARS**
Grad and UG Positions Available Immediately
Laboratory for Sustainable Manufacturing

Position 1: Graduate Research Assistant (half-time position: 20 hrs/wk)
An RA position is available immediately for a graduate student (US citizenship required) within a large ARL project (Advancing Army Modernization Priorities through Collaborative Energetic Materials Research). The specific task of interest is focused on Life Cycle Engineering and Sustainability. The graduate student will be part of a large collaborative team and will develop models for the life cycle environmental impact and cost of ordnance. Attention must also be given to product maintenance and end-of-life management, with consideration of different life cycle management strategies. Also of interest is developing a model that describes the geographic origin of materials and production activities across the manufacturing value chain. Experience in life cycle assessment, manufacturing processes, production systems, and coding/scripting for model development will be viewed positively. The position will provide a monthly stipend in excess of $2000, and tuition will be covered. All qualified graduate students are welcome to apply, but a PhD student is preferred.

Position 2: Undergraduate Researcher (~10hrs/week)
There is an immediate opening for a qualified undergraduate student to undertake techno-economic assessments to evaluate the performance of rare earth element (REEs) recovery processes. This position is being funded by a company. Activities may also include performing a comprehensive systems-wide analysis that considers variables such as feedstock inputs and infrastructure availability for gaining process efficiencies and reducing cost. Students pursuing a degree in environmental, chemical, materials, industrial, or biological engineering are especially encouraged to apply. Experience with processes, production systems, and techno-economic assessment preferred. Project duration is one year. A competitive hourly wage will be provided.

Position 3: Undergraduate Researcher (~10hrs/week)
An undergraduate research position is available immediately to develop environmental impact and cost estimates associated with diesel engine testing. Such testing occurs after an engine is assembled to assure proper functionality. “Hot engine testing” requires the use of fuel, fluids, and other consumables that are discarded after the test. In the long-term it is desirable (as some other companies have done) to transition to “virtual” engine validation, that is, perform the validation in a simulation environment. The information provided by this project will help support the company’s transition to virtual validation. Students pursuing a degree in mechanical engineering are especially encouraged to apply. Experience with manufacturing systems and techno-economic assessment preferred. Project duration is one year. A competitive hourly wage will be provided.

About the Laboratory for Sustainable Manufacturing (LSM)
The Laboratory for Sustainable Manufacturing is affiliated with Environmental and Ecological Engineering (EEE) and aims to apply the principles of sustainability to manufacturing. Our team is conducting innovative research at the interface of manufacturing and the environment that has an impact. (https://engineering.purdue.edu/LSM)

If interested in one of the above positions: please contact Dr. John W. Sutherland (jwsuther@purdue.edu).