



ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ

PUNJAB TECHNICAL UNIVERSITY

(Established by Punjab Govt. Act No. 1 of 1997)

Fastest Growing State University.....

Jalandhar-Kapurthala Highway, Kapurthala-144601. Ph; 01822-662562, Fax: 662570

Department of Student Affairs

PTU Industrial Training Initiative

Internship at

Pennsylvania State University, Harrisburg (USA)

(Period: July to December 2011)

Objectives

To spend 4 to 6 months during the period July to December 2011 to complete the Industrial Training under the Guidance of an American Professor at Pennsylvania State University, Harrisburg USA. (www.hbg.psu.edu)

Target Group

B.Tech. Final year students studying at PTU affiliated Engineering Colleges who are eligible to undergo six months Industrial Training as per the PTU curriculum for B.Tech. during the period July to December 2011.

Duration

4 to 6 months

Scholarship Value

- 4 to 6 months free of cost Industrial Training at PSU Harrisburg (USA)
- A study and research subsidy
- Opportunity to work under the guidance of an American Professor at Penn State University
- Exposure to International working

Number of Vacancies

B.Tech. Mechanical	:	07
B.Tech. CSE	:	02
B.Tech. Electrical/ECE	:	01
B.Tech. Chemical/Biotechnology	:	06
B.Tech. Civil Engineering	:	01

Requirements & Conditions

- Candidate must be eligible to undergo six month Industrial Training as per the PTU curriculum for B.Tech. during the period July to December 2011.
- Proficiency in English Language is a must. However no need of TOEFL/IELTS:
- Students will have to bear Visa, Stay, Travelling and Insurance expenses. The approximated expenditure is as follows:

- Stay Charges : Rs. 72000/-
- Visa Charges : Rs. 7000/-
- Air Fare : Rs. 70000/- (New Delhi to Harrisburg, USA)
- Insurance Charges : as applicable

Application Procedure & Instructions

- Interested candidates have to send the duly filled and signed application form at the Email: deansaptu@gmail.com.
- Application form is available on the PTU website: www.ptu.ac.in (in the Industrial Training Link). The last date for sending the form 10th May 2011.
- After receiving the application forms, short-listing of the candidates will be done on the basis of their academic performance.
- Final Selections will be done by Project Coordinator at PSU through Skype (video conferencing).
- Candidates are required to be in touch with the university website: www.ptu.ac.in for results and other latest information. No separate letters will be sent to any candidate.
- *In this regard on line applications were invited. 150 students have already applied for the same. Apart from the fresh candidates who will apply now, the candidates who have already applied are advised to apply fresh as additional information is required this time.*
- The student will get VISA under immigration Categories 'Trainee internship' under 22 CFR 62.22 and 'student interns' under 22 CFR 62.23. The Embassy will need proof of the student's financial ability to support himself / herself in USA.

Application Fee

The selected students for internship will have to pay Rs 5000/- as processing fee at Punjab Technical University after the final selection process is over.

Time Line

Deadline for sending the application form along with fee slip	:	15 th May 2011
Short-listing of Candidates	:	17 th May 2011 (at www.ptu.ac.in)
Final Interview through Skype with PSU Professors	:	will be informed later
Beginning of Training at PSU, Harrisburg (USA)	:	July 2011

Contact Person & Address

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Details of Vacant Training Positions at Penn State University

S.No.	Project	No. of trainees with fields	Type of Performance	Remarks
1	Design and fabricate a 4 or 5 Degrees of Freedom manufacturing robot	ME (2)	To design and fabrication of components and assembly of the robot.	Total of 3 to 4 students
		CSE (1)	To develop the software support system needed for robot operation.	
		EE / ECE	developing controls and choosing	

		(1)	sensors and actuators	
2	Nonlinear optimization of process and design parameters in a complex system such as power transmission system or manufacturing systems.	ME (2)	Under-graduate students should have understanding of numerical methods and should know computer programming.	Total of 2 students
3	Using Computer Programs (Finite Elements – ANSYS and Material Selection – CES)	ME (1)	To design optimum structures; meaning Least weight and cost to support certain loads. Here we will explore metals as well as composites.	1
4	Mathematical Modeling of acceleration in human occupants during automobile collision	ME (1)	The purpose of such studies would be to minimize injury which is related to acceleration	1
5	Developing computer aided educational modules to study certain principles of Physics	ME / Computer Science (1)	These would be used to generate interest among high school students to study science and engineering. These modules will have graphic interface and interactive exercise	1
6	Metal Cutting	ME (2)	Chip formation and control, tool wear monitoring, machining chatter and vibration analysis and control.	Total of 2 students
	Finite Element Analysis (FEA)		Modeling metal forming (i.e., stamping and forging) and metal cutting processes.	
	Vibration		Nonlinear vibrations and chaos, rotor dynamics, and design for vibration and noise isolation	
	Signal Processing		Time Frequency and wavelet analysis techniques with applications to Neural Network. Machine health monitoring and diagnosis using vibration and acoustic signals	

Important Note: The detailed information, application form and the fee slip are available on the PTU website www.ptu.ac.in (in the Industrial Training Link)

With best Wishes



Dr. Anirudh P. Singh
Dean Student Affairs

PUNJAB TECHNICAL UNIVERSITY

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