



The Boeing Company
P.O. Box 3707
Seattle, WA 98124-2207

January 14, 2014

Professor Shantanu Bhattacharya
Department of Mechanical Engineering
IIT Kanpur

Dear Professor Bhattacharya,

I am pleased to formally invite IIT Kanpur to participate in the 2014 Boeing Technical Externship Program. The attached file provides details for the 2014 program.

Sincere regards,

A handwritten signature in black ink, appearing to read "Pamela Eakins".

Pamela Eakins

Director – Global Technical Services & Technical Excellence
Boeing Commercial Airplanes

Boeing Technical Externship Invitation Letter

What is it?

The **2014 Boeing Technical Externship Program** is a student-oriented experiential learning opportunity designed to expose a select group of third year undergraduate engineering students to exciting career options in the world of aerospace engineering. The program is sponsored by Boeing Commercial Airplanes and Infotech Enterprises Limited, and projects are performed at the Infotech facility in Hyderabad. Applicants will be assessed for consideration based on GPA and an essay on "Composite Design and Manufacturing in Aerospace Industry".

Externship Outline and Schedule (specific dates are tentative)

May 12th

Orientation

Overview of Boeing and Infotech

May 12th to July 14th (duration 9 weeks)

Perform projects

July 15th

Program close-out

Student project report out to Boeing, Infotech and university leaders

Graduation celebration dinner

What are some examples of the types of projects that I may undertake?

- Damage Tolerance Analysis of Composite Structures (Skin Panels, Frames)
- Development of Inspection Methodology for detection of Wrinkles in Large Composite Structures
- Study of de-lamination effects in Composite Structures (Spar Web, Frames, Skin Panels)
- Study of the Bird Strike Effects on Composite Structures (Wing Leading Edge)
- Structural Joints (Composite-Composite, Metallic-Composite) analysis and repair methodologies

Why should I participate?

- To acquire meaningful aerospace industry exposure to enhance academic studies.
- To gain a better understanding of the practical application of engineering and technology skills in aerospace.
- To be exposed to career options in the world of aerospace engineering in India.

Who is eligible to apply?

IIT-Kanpur third year (going into fourth year) bachelors engineering students (over 18 years of age) from any branch of engineering who have an interest in aerospace. **Six students will be selected for the 2014 program.**

How do I apply / what are the selection criteria?

- Provide academic performance history
- Write an essay on 'Composite Design and Manufacturing in Aerospace Industry'.
(1500 word limit)
- Submit to IIT-Kanpur externship focal, Dr. Shantanu Bhattacharya, Department of Mechanical Engineering, by the due date specified.
- Interviews will be conducted by the university.
- Students with a sound academic record, strong interest in the aerospace sector and excellent written and verbal communication skills will be selected.

Industry project focused on aerospace

- Project report is publishable in the public domain.
- The students are not necessarily entitled to a job either at Boeing or at Infotech at the conclusion of the project period.
- A Master Project Agreement would be signed between Boeing and the University laying out all program guidelines.
- A student confidentiality agreement would need to be signed to protect any company proprietary information that the student may gain access to while working on the project.

- A faculty confidentiality agreement would need to be signed to protect any company proprietary information that the faculty may gain access to as a result of the student working on the project.

How will the travel and housing be funded?

A stipend of 45,000 INR per student will be provided. This covers travel and other incidental expenses during the externship period. Infotech will provide corporate housing.

What should I do after I have been selected?

- Sign legal documents and return to Boeing focal
- Make travel arrangements