



Bundesagentur für Arbeit
Zentralstelle für
Arbeitsvermittlung (ZAV)

Praktika für Hochschulstudenten (FH/Uni) USA

A university in Baltimore is looking for an intern in their Mechanical Engineering Department to help with the Project of “Measurement of Dynamic Properties of Materials”.

Objectives: The intern will gain experience in Experimental Mechanics, High-Speed Photography, High-Rate Data Acquisition and Instrumentation. He/she will learn to function in Leading-Edge Research Environment and how to present technical information.

Required field of study: Mechanical Engineering or related field

Special requirements: -good English
-must have experimental experience in a laboratory setting

Maintenance allowance is US\$ 320,- per week. Estimated cost of board and lodging is US\$ 250,- per week.

Duration: starting no later than July 1, 2005 until August 15, 2005.

A university in Illinois is looking for an intern in their Railroad Engineering Department.

Objectives: The intern will gain experience in various railroad engineering projects including development of machine-vision technology to improve the speed and efficiency of railcar safety and mechanical inspection and detect malfunctioning equipment on passenger cars; Analysis of the aerodynamic efficiency of intermodal train loading patterns and development of an automated, wayside machine vision system to monitor loading efficiency; Development of a non-destructive, laser vibrometry method to measure contained stress in rails.

Required field of study: Railroad Engineering (Bauingenieurwesen, Verkehrsingenieurwesen, oder Maschinenbau mit Spezialisierung Eisenbahnwesen)

Special requirements: -good English
-computer skills

Maintenance allowance is US\$ 320,- per week. Estimated cost of board and lodging is US\$ 200,- per week.

Duration: starting no later than June 20, 2005 until August 15, 2005



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A university in Kansas is looking for an intern in their Mechanical and Nuclear Engineering Department.

Objectives: The intern will learn the basic skills and tools required to develop semiconductor-based neutron detectors. He/she will be able to learn basic CAD software and EM analysis tools. The intern will also work with semiconductor process tools and a nuclear reactor and will assist with those processes needed to fabricate and test nuclear radiation detectors for neutron imaging.

Required field of study: Radiation detection and measurement, radiation detector design and fabrication (Energie-, Waerme- und Reaktortechnik oder aehnliches).

Special requirements: - good English
- clean room and semiconductor experience preferred

Maintenance allowance is US\$ 250,- per week. Housing and meals will be available on campus for approx. US\$ 220,- per week.

Duration: starting no later than July 1, 2005 until September 1, 2005

A university in North Carolina is looking for an intern in their Biomedical Engineering Department.

Objectives: The intern will gain experience in Biomedical engineering labwork and research. He/she will assist in research involving studies of the adhesion of blood leukocytes to endothelial cells. The research will examine the hypothesis that cell formation enhances the adhesion of leukocytes to endothelium in arteries. The intern will learn skills in cell adhesion, immunofluorescence, flow studies, and image analysis.

Required field of study: Biomedical Engineering (Biotechnologie)

Special requirements: - cell culture
- MATLAB

Maintenance allowance is US\$ 320,- per week. Estimated cost of board and lodging is US\$ 190,- per week.

Duration: starting no later than June 6, 2005 until August 6, 2005

For all internships, please send cover letter, CV, including a list of subjects studied, and a confirmation of enrolment (Immatrikulationsbescheinigung) asap via e-mail to:
Eva-Christine.Ommer@arbeitsagentur.de

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