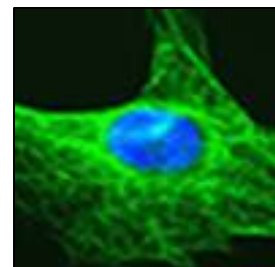
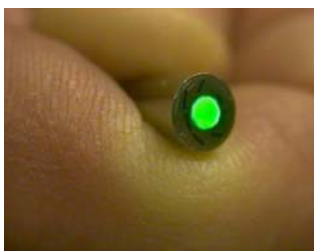


**The Department of Bioengineering at Rice University  
and  
The Center for Biomedical Engineering at the Texas Medical Center announce the**

**2007 Summer Undergraduate Clinical Research Program  
at Houston, Texas**

**BIOE 410: Clinical Medical Internship  
BIOE 415: Clinical Research Internship**



**Funded by**

**The Howard Hughes Medical Institute Grant  
And  
T. Boone Pickens, Communities Foundation of Texas**

The Department of Bioengineering at Rice University and The Center for Biomedical Engineering at the Texas Medical Center are now accepting applications for the 2007 **Summer Undergraduate Clinical Research Program**.

**Details:** The summer program will be an intensive 10-week internship at the UT M. D. Anderson Cancer Center and the University of Texas Health Science Center in Houston, Texas. Juniors and highly qualified sophomores, who are bioengineering majors at Rice University, may apply. The program is designed to provide bioengineering undergraduates with first-hand experience in clinical medicine and interdisciplinary research.

Approximately 15 students will be selected for the program and must register during the following fall semester for BIOE 410 (Clinical Medical Internship) and BIOE 415 (Clinical Research Internship). Students will be housed at Rice University, within walking distance of the Texas Medical Center.

Under the direct supervision of faculty mentors, students will participate in a rigorous program that includes an 80-hour anatomy course taught by Dr. Kathryn Peek, a daily clinical medical rotation, laboratory research, lectures, and leadership training. During the course of the program students will write a research plan, conduct biomedical research, write an abstract, and present their results. In addition, students will become certified in CPR and advanced first aid, and will participate in the Survey of Undergraduate Research Experiences (SURE), an HHMI program collaborative.



**Schedule:** 10 weeks beginning Monday, May 28, 2007 through Friday, August 3, 2007. The program begins at 6:30 am daily. Availability for some evening and weekend hours is expected. All students are required to live in the residential halls.

**Financial information:** Participants will receive a \$1,000 stipend for participation. Students are responsible for payment of tuition and fees for both courses. Students who are accepted receive free housing (Residential Hall) accommodations. Students are responsible for food and linens. Other services are available to the students (telephone, internet access, and parking) at additional cost to the students. Students will check in on Sunday, May 27, 2007 and check out on Saturday, August 4, 2007.

**Students will be engaged in learning about:**

- Clinical Medicine
- Clinical Research
- Laboratory Research Ethics
- Communication and Leadership Skills

**Students will participate in clinical rotations that include:**

- General surgery
- Pediatrics
- Obstetrics/Gynecology
- Emergency Medicine
- Internal Medicine



**This program is under the direction of:**

Rebecca Richards-Kortum, Ph.D.  
Stanley C. Moore Professor and Chair  
Department of Bioengineering  
Rice University

Email: [rkortum@rice.edu](mailto:rkortum@rice.edu)



Michele Follen, M.D., Ph.D.  
Professor, Gynecologic Oncology  
Boone Pickens Chair for Early Prevention of Cancer  
Director, Center for Biomedical Engineering

Email: [mfollen@mdanderson.org](mailto:mfollen@mdanderson.org)

## **Participating research faculty in past years include:**

### U. T. Health Science Center at Houston:

Catherine Ambrose, Ph.D., Assistant Professor, Department of Surgery, Medical School

H. Vernon Anderson, M.D., Professor, Department of Internal Medicine, Cardiology, Medical School

Douglas Baxter, Ph.D., Professor, Department of Neurobiology and Anatomy, Medical School

John Byrne, Ph.D., Chairman and Professor, Department of Neurobiology and Anatomy, Medical School

Charles Cox, M.D., Professor, Department of Surgery, Medical School

Rena D'Souza, DDS, Ph.D., Professor, Director of Research, Department of Orthodontics, Dental Branch

Brijesh "Billy" Gill, M.D., Assistant Professor, Department of Surgery Medical School

Dianna Milewicz, M.D., Ph.D., Professor and Vice Chair, Department Internal Medicine, Medical School

Ponnada Narayana, Ph.D., Professor, Department of Radiology, Medical School

Richard Smalling, M.D., Ph.D., Professor, Department of Internal Medicine, Cardiology, Medical School

### U. T. M. D. Anderson Cancer Center:

Michael Andreeff, M.D., Ph.D., Professor, Blood and Marrow Transplantation

James A. Bankson, Ph.D., Assistant Professor, Imaging Physics - Research

Sandy Chang, M.D., Ph.D., Assistant Professor, Cancer Genetics

Lei Dong, Ph.D., Assistant Professor, Radiation Physics - Patient Care

Maria-Magdalena Georgescu, M.D., Ph.D., Assistant Professor, Neuro-Oncology - Research

Michael Gillin, Ph.D., Professor, Radiation Physics

John Hazle, Ph.D., Professor, Imaging Physics

Water Hittelman, Ph.D., Professor, Experimental Therapeutics

Raymond Jacobson, Ph.D., Assistant Professor, Biochemistry & Molecular Biology

Reuben Lotan, Ph.D., Professor, Thoracic/Head and Neck Medical Oncology

Srikanth Mahankali, M.D., Assistant Professor, Imaging Physics - Research

Anshu Mathur, Ph.D., Assistant Professor, Plastic Surgery - Research

Osama Mawlawi, Ph.D., Assoc. Professor, Imaging Physics

Gordon Mills, M.D., Ph.D., Professor and Chair, Molecular Therapeutics

Firas Mourtada, Ph.D., Assistant Professor, Radiation Physics - Pt Care

Charles Patrick, Ph.D., Associate Professor, Plastic Surgery - Research

Jagannadha Sastry, Ph.D., Professor Immunology

George Starkschall, Ph.D., Professor, Radiation Physics

Gary Whitman, M.D., Assoc. Professor, Diagnostic Radiology

**To apply, please submit an application packet that includes the following:**

- Completed application form (attached)
- Official Rice Transcript
- Letter of recommendation that addresses your academic and research potential (Sealed Envelope)

**Applications may not be submitted electronically.**

**Applications are due by February 5, 2007** and should be mailed or hand-delivered to:

Elaine Carrasco  
Department Coordinator  
Department of Bioengineering  
6100 Main, MS 142  
Houston, TX 77005

Office: KH 116  
Telephone: 713.348.2871  
Fax: 713.348.5877  
E-mail: [bioeng@rice.edu](mailto:bioeng@rice.edu)  
<http://bioe.rice.edu>

**Important dates in the application process:**

**February 5, 2007:            Application packets due**

**February 20, 2007:        Acceptance notification by email**

**March 10, 2007:           Accepted students must email confirmation of intent to enroll**

**2007 Summer Undergraduate Clinical Research Program Application Houston, Texas**

**Note: Students accepted into the program are expected to register for BIOE 410 (Clinical Medical Internship) and BIOE 415 (Clinical Research Internship) for the Fall 2007 session.**

**Personal information (Please Print Clearly or Type):**

Name: \_\_\_\_\_

Current Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Permanent Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E-mail address: \_\_\_\_\_@rice.edu

Secondary E-mail address \_\_\_\_\_

Social Security Number: \_\_\_\_\_

Dorm Room Telephone Number: \_\_\_\_\_

Home Telephone Number: \_\_\_\_\_

Cell Telephone Number: \_\_\_\_\_

Citizenship: \_\_\_\_\_ VISA status (if not US citizen): \_\_\_\_\_

Name and email address of person writing your letter of recommendation:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Email: \_\_\_\_\_

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**Degree Information:**

What semester and year do you anticipate graduating? \_\_\_\_\_

**Current Overall Rice GPA:** \_\_\_\_\_

**BIOE Major GPA:** \_\_\_\_\_

**BIOE courses completed, semester taken, and grade in each:**

**Course/grade/semester**

**BIOE** \_\_\_/\_\_\_/\_\_\_\_\_ **BIOE** \_\_\_/\_\_\_/\_\_\_\_\_ **BIOE** \_\_\_/\_\_\_/\_\_\_\_\_

**BIOE** \_\_\_/\_\_\_/\_\_\_\_\_ **BIOE** \_\_\_/\_\_\_/\_\_\_\_\_ **BIOE** \_\_\_/\_\_\_/\_\_\_\_\_

**Statement:**

Please attach a short statement (no more than 250 words for each question) that addresses the following questions.

- (1) What are your current career goals and research interests?
- (2) Why does the summer internship meet your career and research objectives?

For statistical purposes, please provide the following information:

Gender: \_\_\_\_\_

Race or ethnicity: \_\_\_\_\_

**Applications are due by February 5, 2007.**

Applications should include an official Rice transcript and one letter of recommendation, and should be mailed or hand-delivered by **4:00 pm.** to:

Elaine Carrasco  
 Department Coordinator  
 Department of Bioengineering  
 6100 Main, MS 142  
 Houston, TX 77005

Office: 116  
 Telephone: 713.348.2871