

# COSMOS - Burnham Institute Internship

## INFORMATION



Sponsored by:

You are invited to apply for the COSMOS Internship program which will place 1 (one) highly qualified COSMOS alumni into an 8-10 week internship at the Burnham Institute for Medical Research in La Jolla.

### Burnham Institute for Medical Research:

Burnham Institute for Medical Research is dedicated to revealing the fundamental molecular causes of disease and devising the innovative therapies of tomorrow.

With operations in California and Florida, Burnham is one of the fastest growing research institutes in the country.

The Institute ranks among the top 4 institutions nationally for NIH grant funding and among the top 25 organizations worldwide for its research impact.

Burnham uses a unique, collaborative approach to medical research and has established major research programs in cancer, neurodegeneration, diabetes, infectious and inflammatory and childhood diseases.

The Institute is known for its world-class capabilities in stem cell research and drug discovery technologies.

### Internship Details:

- 1 Position
- 8-10 Weeks
- Start Date June 22
- \$1,500 (compensation to cover travel costs and meals)
- Housing not provided

The placement lab's has a focus in 4 key areas: Inflammation, Apoptosis and Bcl-2 mediated Cell Survival, Mechanisms of caspase activation and biology, and finally ER (endoplasmic reticulum) Stress and Autophagy.

The intern will receive training in cell death mechanisms associated with apoptosis or in biochemical mechanisms of inflammation. This will include training in the following techniques: assay development, protein purification, western blotting, DNA isolation and analysis techniques, cell culture (if trainee is over 18 years of age), and data analysis. Will present at lab meetings. Will meet with scientific mentor on a regular basis.

### Eligibility:

- Must be a COSMOS alumnus
- High School Junior/Senior or College Freshman
- Interest in Biology or Biochemistry
- Have taken AP biology and/or a chemistry course
- The candidate must be over 16 years of age
- Have a valid work permit if under 18

### To apply, submit by email to COSMOS Statewide:

1. Completed Application Form (next page)
2. Responses to all 3 Essays prompts below.
3. A Copy of your current Transcripts (unofficial is fine)

### Deadline:

Monday, May 25, 2009 (Memorial Day)

### Notification:

Will be sent by email on June 5th

### Essays: (max 500 words/essay)

1. Describe your background in science/math?
2. Describe how what you studied during the COSMOS program has impacted your future career goals.
3. How would an internship at the Burnham Institute align with your future education/career goals?

### Submit by email to COSMOS Statewide:

1. Application Form
2. Essays
3. A Copy of your Transcripts (unofficial)

Notifications will be sent by email on June 5th



### COSMOS STATEWIDE

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