

The University of Chicago

Institute for Genomics & Systems Biology  
Chicago Center for Systems Biology

**\$4,000 Stipend**

Research awards are based on academic excellence, motivation, and potential. Students are given lab space to work with a mentor.

**Research Focus**

The Chicago Center for Systems Biology focuses on how networks of genes work together to enable cells and organisms to respond to environmental and genetic changes.

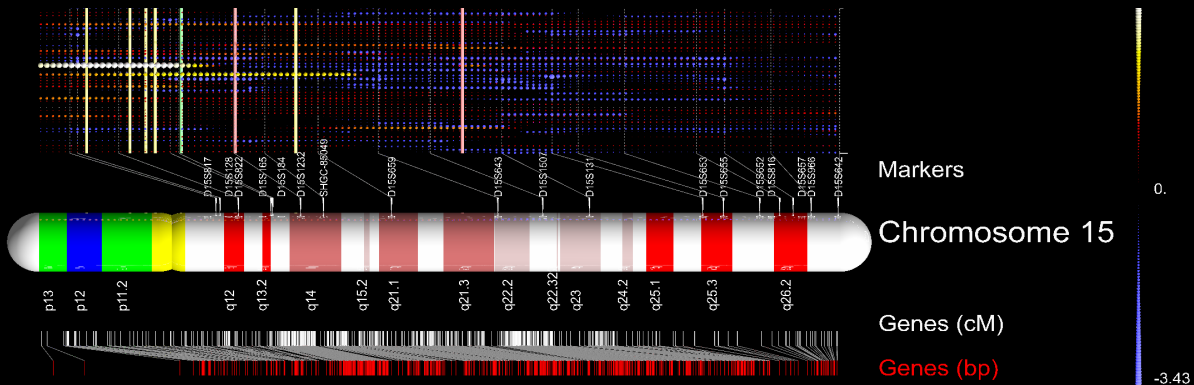
**Applicants**

REU participants are selected from a nationwide pool of undergraduates, including University of Chicago students.

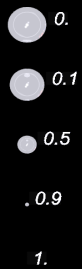
# REU Program in Systems Biology

research experiences for undergraduates

**A**

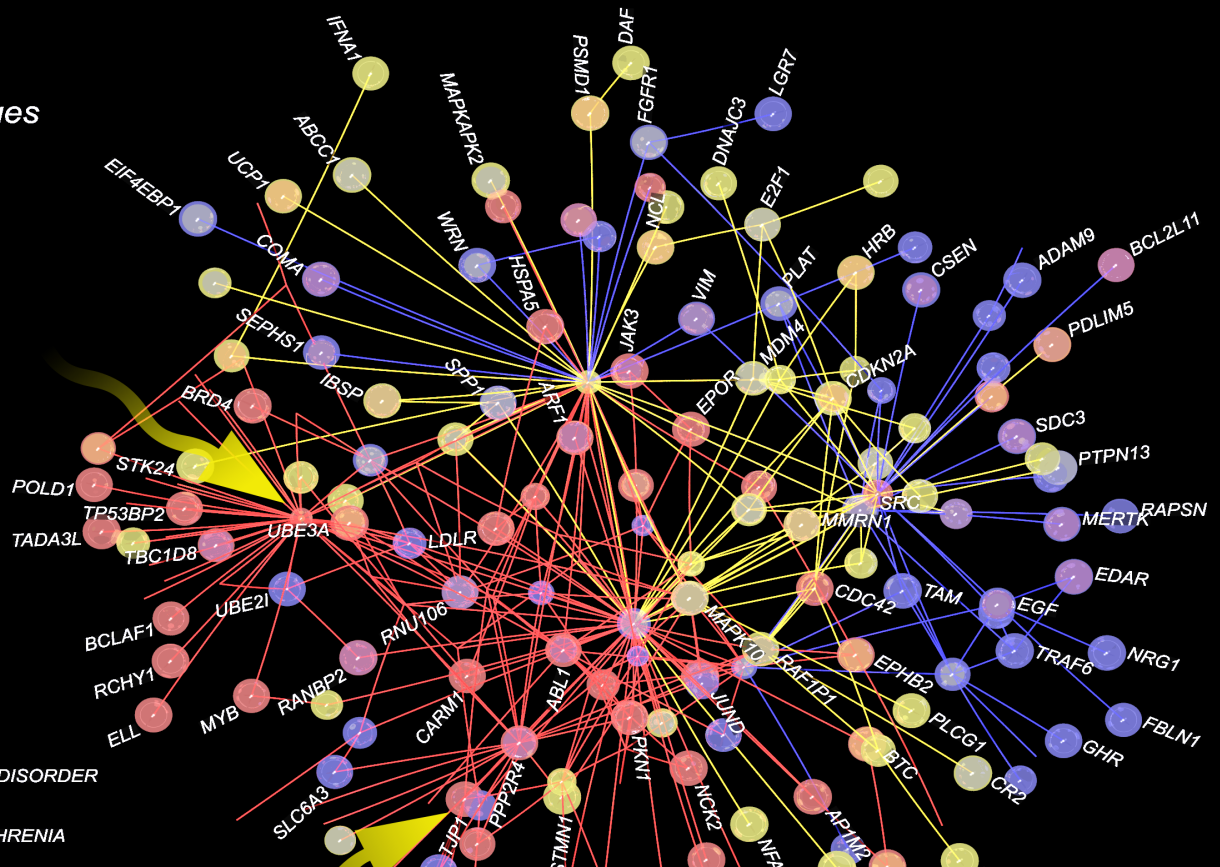
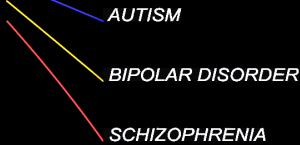


**Gene-specific p-values**



**B**

**Disorders**



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## REU Program in Systems Biology

# research experiences for undergraduates

The Chicago Center for Systems Biology (CCSB) seeks highly qualified undergraduates for Research Experiences for Undergraduate (REU) Fellowships. Stipends of up to \$4,000 per ten-week summer quarter (June 15 - August 21, 2009) for intern projects, or per year for honors research activities, are available. They will be awarded on a competitive basis based on academic excellence, motivation, scientific potential, compatibility of personal interests, and long-term career goals aligned with research interests of the CCSB. Applicants with computational science backgrounds are especially encouraged to apply. All participants must be U.S. citizens or permanent residents. Students must be enrolled in (but not yet graduated from) an accredited undergraduate college degree program with a concentration in a biological sciences related field.

If selected, students will be matched with a faculty researcher who will mentor lab activities. Assignment to a project will be made after the student has become exposed to a wide variety of research topics. At the conclusion of the project, students will produce a summary report and present their findings at a REU symposium. Some research may be of high enough quality to result in submittal to a journal for publication.


CCSB is based at the University of Chicago but includes collaborating investigators located at Northwestern University and the University of Illinois at Chicago. CCSB research focuses on how networks of genes work together to enable cells and organisms to respond to environmental and genetic changes. CCSB is studying the robustness of transcriptional networks in physiological, developmental, and evolutionary time scales.

During summer internships, REU students will interact with CCSB projects, modeling activities, and core technology resources. Participants will have full University privileges, with access to libraries, athletic facilities, and University-sponsored social and cultural events. Students are invited to attend faculty seminars, take training courses, and participate in workshops.

Deadline for receipt of application materials is February 26, 2009. To apply, send via mail or email the filled out application, personal statement, official transcript, and two letters of recommendation to:

Barry Aprison, Ph.D.  
Education and Outreach Director  
Institute for Genomics & Systems Biology  
The University of Chicago  
Cummings Life Sciences Center, Rm. 424  
920 East 58th Street  
Chicago, IL 60637  
[baprison@bsd.uchicago.edu](mailto:baprison@bsd.uchicago.edu)

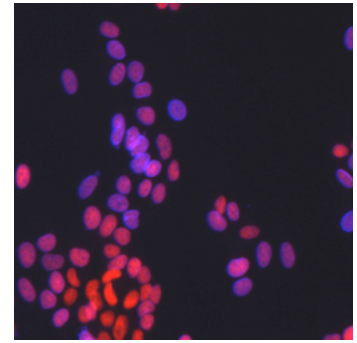
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# REU Program in Systems Biology

research experiences for undergraduates

2009 Summer Research Experience for Undergraduate Program

Application Deadline: February 26, 2009

Name (last, first, mi):

male / female

Present college or university:

Major field of study:

Current year of study:

Expected graduation date:

College address:

Home address:

_____	_____
_____	_____
_____	_____
_____	_____

e-mail: \_\_\_\_\_

College phone:

Home phone:

Date of birth:

Place of birth (city, county, country):

Citizenship (**must** be **US** citizen or permanent resident): Social Security number: \_\_\_\_\_

U. S. Ethnicity: (optional)

Other \_\_\_\_\_

African-American

Hispanic

(country)

Asian-American

Native American

U.S. Permanent Resident

Caucasian

Other \_\_\_\_\_

Other academic information:

Overall GPA:

GPA in Science and math-related subjects:

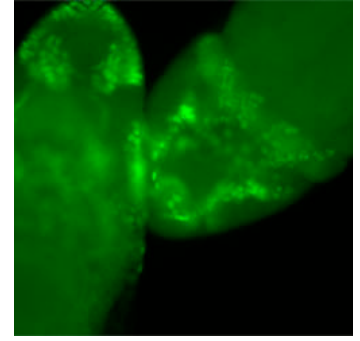
Previous colleges or universities attended:

Have you participated in an REU program before?

If so, when? & Where?

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Research area(s) of interest:

- Transcriptional dynamics in stressed bacteria
- Ancestral metazoan stress response circuits
- Drosophila segmentation network
- Drosophila* eye development
- Hematopoietic stem cell differentiation
- Other:

Describe your specific interest regarding this program (e.g. experiment or theory, particular research area, or project if strong preferences exist):

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Relevant Work, Life, or Laboratory Experience (employer, type of work, dates of employment, talents and practical skills, previous participation in an REU or other summer program):

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Computer Experience (Please list the types of computers you have used and any programming languages or operating systems with which you have had experience):

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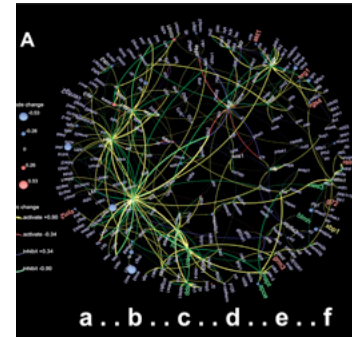
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## REU Program in Systems Biology

research experiences for undergraduates

Please include along with the application a personal statement (of at least 200 words) describing your academic and research goals and how participation in a University of Chicago Undergraduate Research Program would help you achieve these goals.

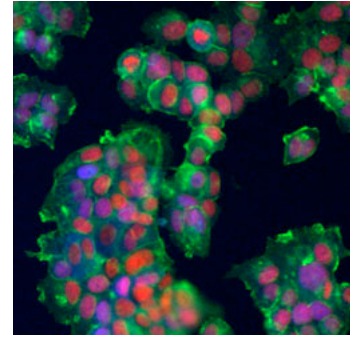
*Personal Statement:*

Please send the Application Form together with your statement, 2 letters of recommendation, and official transcript to the address below:

The University of Chicago REU Program  
Attn: Barry Aprison, Ph.D.  
Education and Outreach Director  
Institute for Genomics & Systems Biology  
The University of Chicago  
Cummings Life Sciences Center, Room 424  
920 East 58th Street  
Chicago, IL 60637  
baprisson@bsd.uchicago.edu

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## *Letter of Recommendation*

Name of applicant: \_\_\_\_\_

In accordance with the provisions of the Federal Education and Privacy Act of 1974, enrolled students have the right to see their letters of recommendation unless they have explicitly waived that right. Check one:

I waive my right of access to this recommendation. • I do not waive my right of access to this recommendation.

\_\_\_\_\_  
Signature of applicant

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name of respondent (Please print)

\_\_\_\_\_  
College, University, or Company

\_\_\_\_\_  
Department

\_\_\_\_\_  
Title and Position

**Note to respondent:** We appreciate your candid evaluation of the applicant named above. We are interested in how long and in what capacity you have known the applicant, your impression of the applicant's initiative, intellectual capabilities, resourcefulness, and any other specific qualities that you feel are important to judge his or her potential for further study and research leading to a career in the biological sciences.

\_\_\_\_\_  
Signature of respondent

\_\_\_\_\_  
Date

Please mail the completed recommendation to the indicated address by February 26, 2009.