DIMACS REU
DIMACS/DIMATIA REU
Rutgers Mathematics Department REU
CCICADA REU

Research Experiences for Undergraduates
(with an optional trip to DIMATIA in Prague, Czech Republic)

U.S. Program: June 1 – July 23, 2010
Prague Trip: July 19 – August 4, 2010

The Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), the Rutgers Department of Mathematics and The Center, Control, and Interoperability Center for Advanced Data Analysis (CCICADA), invite applications for a Research Experiences for Undergraduates (REU) program.

Research for a summer REU at DIMACS' Rutgers facility includes various topics in mathematics and computer science, for example: discrete mathematics, computational molecular biology and biomathematics, computational complexity, computational algebra and geometry, numerical solutions to mathematical physics problems. Research for a CCICADA summer REU at DIMACS' Rutgers facility offers projects on emerging applications of mathematics for homeland security. These programs consist of intensive research under the direction of DIMACS, CCICADA and Mathematics faculty mentors. For some DIMACS/DIMATIA participants there is an optional trip to DIMATIA (the Center for Discrete Mathematics, Theoretical Informatics, and Applications), at Charles University in Prague, Czech Republic, for additional research under the direction of DIMATIA faculty.

The DIMACS REU*, DIMACS/DIMATIA REU*, Mathematics Department REU*, and CCICADA REU all offer the same stipend, housing and office accommodations. The application procedure is consolidated to allow an applicant to apply simultaneously for all programs and to create a larger interactive group experience for the participants. The source of funds to support the students and the departmental staff that processes stipends and reimbursements are separate for the DIMACS and the Mathematics Department programs.

*These positions are dependent on a pending grant proposal

Applicants should be undergraduates with a major in computer science, mathematics, or a closely related field. We strongly prefer current juniors, although sophomores with exceptionally strong backgrounds as well as seniors will be considered. Preference will be given to students who will continue their research projects during the following academic year, under the direction of either their mentor or a faculty member from their home institution.

Expressed interest in a particular project is an important factor in applicant consideration. Students from underrepresented groups and from institutions with limited opportunity for undergraduate research are especially urged to apply.

Under NSF rules, only U.S. citizens and permanent residents are eligible to receive stipends and support for housing and travel costs. Applications are due by January 31, 2010.

See the following web pages for more information about the projects and mentors associated with these programs:
http://dimacs.rutgers.edu/REU/
http://math.rutgers.edu/-reu/
Application for the 2010 DIMACS, DIMACS/DIMATIA, Rutgers Mathematics Department and the CCICADA REU Programs

Name: ____________________________  
(please print)

Email: ____________________________

Campus Address and Phone:

__________________________________
__________________________________
__________________________________

Permanent Address and Phone:

__________________________________
__________________________________
__________________________________

Recommender (Name, title, phone, email):

__________________________________
__________________________________
__________________________________

Birthdate*: _________________________

Gender*:  □ Male  □ Female

Ethnicity*: _________________________

Citizenship status:  □ U.S Citizen  □ Permanent Resident  □ non-U.S. citizen

If not a U.S. citizen or permanent resident, please list country of citizenship:

(Due to agency funding rules, only U.S. citizens and permanent residents can receive stipends, housing & travel support under the DIMACS, DIMACS/DIMATIA, and Mathematics programs. However, foreign students are eligible for the DyDAn program.)

Expected Graduation Date and GPA.  ____________________________
(Please attach transcript or send separately - unofficial ok)

List of this semester's classes with an estimate of your grades:

__________________________________
__________________________________
__________________________________

Courses, employment, or other experience relevant to the REU program (advanced courses in math, CS, engineering, etc.; specifically, mention which programming languages/packages you are familiar with, such as C, C++, Maple, MAGMA, GAP, Mathematica, etc.):  

__________________________________
__________________________________
__________________________________
Is it possible for you to continue your project at your home institution during the 2008-2009 academic year? (Explain.) This is strongly encouraged.

Do you wish to be considered for the visit to DIMACS' sister site, DIMATIA, in Prague? □ Yes □ No (Your answer to this question does NOT affect your chances of participating in the REU.)

Please consult the DIMACS and Rutgers Math Department webpages and list below the project numbers (e.g. DDD2010-04, Math2010-06) in order of your preference (please include all that are of interest to you).

1. _______________ 2. _______________ 3. _______________ 4. _______________
5. _______________ 6. _______________ 7. _______________ 8. _______________
9. _______________ 10. _______________ 11. _______________ 12. _______________

If you have any questions please contact the REU Coordinator: email: reu@dimacs.rutgers.edu /Phone 732-445-5930 or write to: DIMACS / Rutgers Univ. / 96 Frelinghuysen Rd. / Piscataway, NJ 08854-8018

Please see the following websites for project descriptions, stipend and housing information and information on how to apply via the website.

http://dimacs.rutgers.edu/REU/
http://math.rutgers.edu/~reu/

* Because this is a federally funded program, we are required to track this information. You are not obliged to answer these questions.

APPLICATION CHECKLIST

__ This APPLICATION FORM

__ TRANSCRIPT (current through 12/09 – an unofficial transcript is sufficient.)

__ SHORT STATEMENT (one page or less) describing what you hope to contribute to and gain from the REU program. This statement is a very important component of the application.

__ RECOMMENDATION LETTER from a faculty member (or graduate teaching assistant), preferably in mathematics or computer science, who can discuss your potential to successfully complete a research project. This letter should be sent by the recommender in a sealed, signed envelope or emailed to reu@dimacs.rutgers.edu.

Recommendation Letter, Short Statement, and (unofficial) Transcripts can all be submitted electronically to reu@dimacs.rutgers.edu.