California State University, San Bernardino
With the support of the NATIONAL SCIENCE FOUNDATION
Mathematics and Science Scholars (MASS) program
FRESHMAN MASS Application Form

The National Science Foundation (NSF) has awarded CSUSB a grant for scholarships to students majoring in mathematics and science disciplines at CSUSB and who meet the described eligibility criteria. It is designed to recruit and retain more students to the STEM disciplines. The MASS program targets academically talented students who demonstrate financial need and who intend to pursue a major in mathematics, engineering, or science. Need-based awards will be up to $4,000 per student for a year as long as the student is enrolled full-time and remains in good academic standing. Students with no financial need may still be admitted to the program and receive a $100 stipend from the College of Natural Sciences.

Eligibility Criteria:

1. Full-time enrollment (minimum 12 units per quarter) at CSUSB with a declared major in Biology, Chemistry/Biochemistry, Computer Science, Computer Engineering, Geological Sciences, Mathematics, or Physics.
2. Entering freshman students can apply.
3. Evidence of financial need, as determined by the Office of Financial Aid at CSUSB.
4. Must be a citizen of the United States, National of the United States (as defined in section 101 (a) of the Immigration and Nationality Act), alien admitted as refugee under Section 207 of the Immigration and Nationality Act, or alien lawfully admitted to the United States for permanent residence at the time of submitting your application.
5. Must have a demonstrated interest in science and in actively pursuing a career in either scientific research, industry or in teaching science in one of the STEM disciplines. (Biology, Chemistry/Biochemistry, Computer Science, Computer Engineering, Geological Sciences, Mathematics, and Physics)

To Apply:

You must first complete and submit a CSUSB application. This can be done online at http://www.csumentor.edu.

Submit a FAFSA (Free Application for Federal Student Aid) either through the Financial Aid Office or online at http://www.fafsa.ed.gov.

Complete and return the MASS Application Form.

Submit a personal essay describing why you should be chosen and why you are pursuing an education in mathematics or science.

Two (or more) letters of recommendation, at least one from a science or mathematics teacher or professor, must be submitted.

Return completed application to: MASS Program, Department of Computer Science and Engineering, Jack Brown 307, CSUSB, 5500 University Parkway, San Bernardino, CA 92407-2397.

MASS Application Deadline:

April 9, 2010
CSUSB/NSF - Math and Science Scholars (MASS) program
Application Form

Please complete all areas of the application. Type or print legibly

Name _______________________________________________    Date __________________________

Address ______________________________________________________________________________

City _________________________        State __________        Zip code __________________________

Home Phone: (      ) ______________      Work: (     ) _______________ Cell: (    ) __________________

Email: ___________________________    CSUSB Email: _______________      GPA: __________

Intended or Current CSUSB Major:

□ Biology        □ Geology
□ Chemistry      □ Mathematics
□ Biochemistry   □ Physics
□ Computer Science  Other, please specify: ________________________________
□ Computer Engineering

California Resident: (   ) Yes (   ) No    U.S. Citizen: (   ) Yes (   ) No
Refugee/ Alien: (   ) Yes (   ) No    Permanent Resident: (   ) Yes (   ) No

Do you have a demonstrated financial need? (   ) Yes (   ) No

High school you graduated from: ____________________________________________________

High school counselor name and contact number: ____________________________________________________
MASS will contact counselor to verify class ranking.

Extracurricular Activities:
Please list your extracurricular activities, highlighting those related to Mathematics and Science.

<table>
<thead>
<tr>
<th>Activity Title</th>
<th>Description</th>
<th>Dates</th>
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**Mathematics and Science Course List:**
Please list ALL current and completed Mathematics and Science courses, indicating the letter grade you received in completed courses. (Attach additional sheets if necessary)

<table>
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<tr>
<th>Course (name/number)</th>
<th>Course Title</th>
<th>School/College where you took the course and Term/Year Taken</th>
<th>Grade</th>
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**To Maintain & Renew your MASS Award you must:**
1. maintain full-time enrollment (minimum 12 units per quarter) at CSUSB with a declared major in Biology, Chemistry/Biochemistry, Computer Science, Computer Engineering, Geological Sciences, Mathematics, or Physics.
2. demonstrate financial need, as determined by the CSUSB Office of Financial Aid
3. maintain a minimum cumulative GPA of 3.3
4. meet with your assigned MASS faculty mentor each quarter prior to registration
5. receive a positive review and recommendation from the assigned MASS faculty mentor
6. attend at least two College of Natural Sciences MASS seminars per academic quarter

Priority registration will be awarded to all MASS participants, provided they maintain the above six listed requirements.

**Please Note:** The MASS Scholarship could affect your other financial aid awards, in particular State University Grants. Before accepting your MASS award, please contact Louise Jones at Financial Aid office at, (909) 537-5227, email: ljones@csusb.edu, for more information and to assure that there are no financial constraints in accepting this scholarship.
Include a 1-page typed essay (doubled space, 12 point Font, Times New Roman) discussing your professional goals and explaining why you should be considered for the MASS program. Evaluation of your application will be based in part on content and composition of this essay.

Suggested Essay Topics:
1. Name one influential American scientist or mathematician of the 20th Century. Discuss why you think his or her contributions altered the course of modern science.
2. Assuming that your goal is to obtain an undergraduate degree in one of the participating science disciplines, what are your long-term plans after graduation?
3. How did your High School science education prepare you to pursue an undergraduate science degree at CSUSB?
4. Why have you chosen your particular major?

Name, addresses, and contact numbers for your 2 references:

Name #1: __________________________________________________________
Title: ____________________________________________________________
Address: __________________________________________________________
Phone: ( ) ___________________________ Email: ________________________
How does this person know you? ______________________________________

Name #2: __________________________________________________________
Title: ____________________________________________________________
Address: __________________________________________________________
Phone: ( ) ___________________________ Email: ________________________
How does this person know you? ______________________________________

1. I give CSUSB permission to release this information to the NSF, if required.
2. I give CSUSB permission to publicize my MASS scholarship award.
3. I understand that, as a MASS scholar, I must be enrolled full-time (minimum of 12 units per quarter) in one of the STEM disciplines and must maintain a 3.3 GPA minimum in each quarter for the duration of my award.
4. I understand that my MASS scholarship might affect other financial aid awards, in particular any State University Grants.
5. I certify by my signature that I have read and understood the information in this application and that it is complete and accurate.

______________________________________________________________
Signature of Applicant

______________________________________________________________
Date
RECOMMENDATION LETTER FORM

To the applicant:
Under the Family Education Rights and Privacy Act of 1974 (FERPA), you are entitled to review this letter of recommendation or to waive your right to access.

Please check the appropriate box and sign below before giving this form to the individual from whom you are requesting a letter of recommendation.

(    ) I waive my right to review this letter of recommendation.
(    ) I do not waive my right to review this letter of recommendation.

To the endorser:
Please include this form when submitting your letter of recommendation.
You may use this form or you can submit the recommendation on your school’s or organizations official letterhead.

Name of applicant: _______________________________________________________

How long have you known the applicant and under what circumstances?

________________________________________________________________________
________________________________________________________________________

How would you rate the applicant in comparison to all other students you have known in the past three years? (e.g., 5%, 10%, 25%, etc).

________________________________________________________________________

Why do you recommend the applicant for a scholarship? What qualities, personal characteristics, and interest does the applicant possess which make her/him outstanding among other students?

________________________________________________________________________
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________________________________________________________________________

Signature __________________________________________ Date____________________

Please PRINT Name: __________________________ Title: ______________________

School/Department: __________________________ Email: ______________________

Address: __________________________________________________________________

Phone: (    ) ______ - ______

Return this form along with your letter of recommendation if typed on letterhead to:
MASS program, Department of Computer Science and Engineering, California State University, San Bernardino, CA 92407-2397.

If you have any questions contact,
Alice or Monica at (909) 537-5326 or via Email at amartine@csusb.edu.
To the applicant:
Under the Family Education Rights and Privacy Act of 1974 (FERPA), you are entitled to review this letter of recommendation or to waive your right to access.

Please check the appropriate box and sign below before giving this form to the individual from whom you are requesting a letter of recommendation.

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Signature ___________________________________________ Date _______________________

Please PRINT Name: __________________________________ Title: ______________________

School/Department: __________________________ Email: ___________________________

Address: ______________________________________________________________________

Phone: ( ) _______ - _______

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If you have any questions contact,
Alice or Monica at (909) 537-5326 or via Email at amartine@csusb.edu.
Keep this for your information – should you have any questions.
Below is a list of contact names and phone numbers for Mentors and Program Coordinators.

<table>
<thead>
<tr>
<th>BIOLOGY</th>
<th>CHEMISTRY/BIOCHEMISTRY</th>
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| **Kevin Middleton, PhD**  
*MASS Biology Mentor*  
Assistant Professor, Biology  
California State University, San Bernardino  
Phone: (909) 537-5577  
Email: kmm@csusb.edu | **Kimberley Cousins, PhD**  
*MASS Chemistry/Biochemistry Mentor*  
Professor, Chemistry & Biochemistry  
California State University, San Bernardino  
Phone: (909) 537-5391  
Email: kcousins@csusb.edu |

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<tr>
<th>COMPUTER SCIENCE &amp; ENGINEERING</th>
<th>GEOLOGICAL SCIENCES</th>
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| **Haiyan Qiao, PhD**  
*MASS Comp. Science/Engineering Mentor*  
Assistant Professor, Computer Science  
California State University, San Bernardino  
Phone: (909) 537-5415  
Email: hqiao@csusb.edu | **Joan Fryxell, PhD**  
*MASS Geology Mentor*  
Professor, Geological Sciences  
California State University, San Bernardino  
Phone: (909) 537-5311  
Email: jfryxell@csusb.edu |

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<tr>
<th>MATHEMATICS</th>
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| **Laura Wallace, PhD**  
*MASS Mathematics Mentor*  
Associate Professor, Mathematics  
California State University, San Bernardino  
Phone: (909) 537-7113  
Email: wallace@csusb.edu | **Paul Dixon, PhD**  
*MASS Physics Mentor*  
Professor and Chair, Physics  
California State University, San Bernardino  
Phone: (909) 537-5399  
Email: pdixon@csusb.edu |

For questions regarding the MASS scholarship application contact:
Alice Martinez or Monica Latimer  
MASS Program Assistants  
(909) 537-5326 – Email: amartine@csusb.edu or mlatimer@csusb.edu

For questions regarding Financial Aid contact:
Louise Jones  
Financial Aid Office  
(909) 537-5227 – Email: ljones@csusb.edu

For general programmatic questions or if one of the above mentors is not available contact:
George Georgiou, PhD  
MASS Program Coordinator  
Professor and Chair of Computer Science  
Phone: (909) 537-3378 - Email: georgiou@csusb.edu