



## HU Biomedical Research Training Initiative (HUBIRTI)

### Spring 2018 MARC / HUBIRTI Application

#### For Sophomore Students

*Instructions: Please complete the requested information below. Type or print legibly.*

1. Full Name: \_\_\_\_\_

2. HU ID#: \_\_\_\_\_

3. Indicate the following as of end of fall 2017:

Total Number of Credit Hours \_\_\_\_\_; Cumulative G.P.A. \_\_\_\_\_ (a minimum GPA of 3.3 is required)

4. Classification in School: \_\_\_ Sophomore \_\_\_ Junior \_\_\_ Senior

5. Date of Birth \_\_\_\_\_ 6. Gender: \_\_\_\_\_ Male \_\_\_\_\_ Female

6. Department Major: \_\_\_\_\_

7. Name of Department Major Advisor: \_\_\_\_\_

8. Anticipated Year and Semester of Graduation \_\_\_\_\_

9. Local/Campus Address \_\_\_\_\_

10. Cell Phone # \_\_\_\_\_

11. E-mail address: \_\_\_\_\_

12. Names of Parents / Guardians \_\_\_\_\_

13. Permanent Address: \_\_\_\_\_

\_\_\_\_\_

14. Permanent Telephone #: \_\_\_\_\_

15. Residency

\_\_\_\_\_ U.S. Citizen

\_\_\_\_\_ Permanent resident of the US

\_\_\_\_\_ Noncitizen national of the US

\_\_\_\_\_ Non US resident (does not qualify for this program)

16. Ethnicity

\_\_\_\_\_ Black or African American \_\_\_\_\_ Native American

\_\_\_\_\_ Pacific Islander

\_\_\_\_\_ Hispanic or Latino \_\_\_\_\_ White non-Hispanic

Other (indicate) \_\_\_\_\_

17. Degree goals: MD \_\_\_\_\_ PhD \_\_\_\_\_ MD/PhD \_\_\_\_\_ Others (Please note) \_\_\_\_\_

Two letters of recommendation (from either science/technology/engineering or math professors) are required for the application. Please include the contact information of the recommenders. Letters of recommendation should specifically discuss your interest. Letters should be addressed to Dr. Cecile Andraos-Selim, Associate Professor, Department of Biological Sciences.

a. Name: \_\_\_\_\_ Department: \_\_\_\_\_

Phone #: \_\_\_\_\_ E-Mail \_\_\_\_\_

b. Name: \_\_\_\_\_ Department: \_\_\_\_\_

Phone #: \_\_\_\_\_ E-Mail \_\_\_\_\_

19. Do you currently receive financial support/scholarships? \_\_\_ Yes \_\_\_ No. If yes, indicate the source, amount, and funding period of support:

Source	Amount	Funding Period: Start/End Date

Please use additional sheets if you need additional space.

20. Current and previous employment (if applicable). List employer, location, position, duties, and hours worked per week:

Employer	Location	Position Title and Duties	Hours Worked Per Week

Please use additional sheets if you need additional space.

21. List previous research experiences below including location, project details, technical skills learned, and dates:

Location of Research Experience (include name of research mentor if applicable)	Short Description of the Project	Technical Skills Learned	Time Period (Range of Dates) When Research Was Performed

Please use additional sheets if you need additional space.

22. Indicate whether you have attended any workshops, internships, or scientific meetings by listing them below:

Name and location of workshop/internship/scientific conference	Date/ Range of Dates	Did you present? If so, was it a poster presentation? or oral presentation?

23. Have you received any awards? Please list them.
24. Personal Statement: On a separate page, type a one-page statement (single-spaced) to describe your career goals. Also indicate why you are interested in this program and how this program will specifically help you achieve your goals.
25. **Were you a PreMARC student?** \_\_\_ Yes \_\_\_ No
26. **Which pre-MARC activity/ course have you completed?**
- |                                    |                     |
|------------------------------------|---------------------|
| A. Journal Club                    | _____ Yes; _____ No |
| B. Responsible Conduct of Research | _____ Yes; _____ No |
| C. Pathway to PhD                  | _____ Yes; _____ No |
| D. BIO 105 (Professor _____)       | _____ Yes; _____ No |
| E. BIO 105 Honors Lab              | _____ Yes; _____ No |
| F. BIO 312                         | _____ Yes; _____ No |
| G. BIO 311                         | _____ Yes; _____ No |
| H. MAT 151                         | _____ Yes; _____ No |
| I. MAT 152                         | _____ Yes; _____ No |
| J. PHY 201                         | _____ Yes; _____ No |
| K. PHY 202                         | _____ Yes; _____ No |
| L. CHE 201                         | _____ Yes; _____ No |
| M. CHE 202                         | _____ Yes; _____ No |
| N. CHE 301                         | _____ Yes; _____ No |
| O. CHE 302                         | _____ Yes; _____ No |

27. **In Compliance with the MARC curriculum:** Using a table, please submit a plan of study of your junior and senior years at HU. Please make sure to include all the courses that you are required to take to meet the requirements for graduation in your major in addition to the required MARC/pre-MARC courses. Please note that MARC trainees must only have **2 years remaining until graduation. Please sign and get your advisor to sign your plan of study.**

**Required MARC courses:**

**Biology, Biochemistry and Chemical Engineering Majors:**

BIO105 (Intro to Bio); CHE 201-202 (General Chemistry); CHE301/302 (Organic Chemistry); MAT151/152 (Calculus I/II); BIO 311 (Biotechnology Exploration); BIO 312 (Molecular Biology); CHE 303-304 (Biochemistry) or CHE 501-502 (Advanced Biochemistry); BIO 425 (MARC Research Seminar); Statistics course (either MAT 205, MAT 305, MAT 312, ESC 301-Biometry or PHA 332-Biostatistics); PHY 201-202 or PHY 203-204 (Physics); and either BIO 415 (Fundamentals of Cell Biology); and BIO 408 (Research Projects), and to be developed-computer programing course.

**Mathematics:**

BIO105 (Intro to Bio); CHE 201-202 (General Chemistry); MAT151/152 (Calculus I/II); and BIO 311 (Biotechnology Exploration). BIO 425 (MARC Research Seminar); Statistics course (either MAT 205, MAT 305, MAT 312, ESC 301 (Biometry) or PHA 332 (Biostatistics); PHY 201-202 or PHY 203-204 (Physics); Either BIO 415 (Fundamentals of Cell Biology), BIO 336 (Human Physiology); and BIO 408 (research projects) and to be developed-computer programing course.

**Other MARC requirements include:** Attendance of the “Responsible Conduct of Research Workshop”; “Verbal Reasoning Workshop” or GRE test Prep; and Journal Club. For a complete list of the other MARC requirements please check the MARC website or ask Dr. Andraos-Selim.

**Your signature below signifies that this application is accurate, complete and an honest reflection of your experiences and interests.**

\_\_\_\_\_  
Applicant’s Signature

\_\_\_\_\_  
Date

**Please return the following materials in a single folder/envelope: (1) completed application; (2) personal statement; (3) official transcript; (4) A two-year (junior/senior years) plan of study; (5) and 2 sealed and signed letters of recommendation addressed to Dr. Andraos-Selim, DuPont 117 by the specified deadline.**