The Visiting Professors program provides opportunities for our program participants to meet minority scientists from around the country through this program. We are proud that 60 percent of our Visiting Professors are now our HGSC MDI alumni!

We offer a Bioinformatics BootCamp course to both our programs. In the field of genomics there is a critical need for more bioinformatics scientists and we want to provide an introduction to our program participants to encourage them to learn more about this area of science. We provide biomedical and bioinformatics lectures and workshops over a four day period to increase the exposure of life science and computer science majors. We provide guided coding exercises to increase the trainee’s confidence to motivate them in their area of study.
The **Human Genome Sequencing Center (HGSC)** at Baylor College of Medicine created the Minority Diversity Initiative to increase under-represented minorities (URM) in the genomic sciences. Since 2003, our Minority Diversity Initiative (MDI) has successfully prepared our program participants for graduate school. Currently, our alumni include 6 Ph.D.s, 3 Ph.D. candidates defending this year, and 15 in graduate school. The HGSC-MDI includes a summer research internship and post-baccalaureate training. These programs offer training and support to assist URMs in gaining a Ph.D. in genomics and career advancement opportunities once they obtain their doctorate.

The **Minority Diversity Initiative** includes: the HGSC—Genetics/Genomics Research Education And Training (G/GREAT) program, and HGSC—Pre-Graduate Education Training (PGET) program. Diverse parenting beliefs and values that sometimes differ from the parenting practices that are addressed in parenting interventions.

Our **HGSC-G/GREAT** Summer Research Program provides research opportunities in the genomic sciences for 6 URM for 9.5 weeks each summer.

**Program components:** Kaplan GREprep course, biomedical/genomics research project, HGSC-GREAT Genomics and Biomedical Review Course, HGSC-Bioinformatics BootCamp course, Ethics in Genomics lecture, biweekly SMART Seminar Series, discussions with Visiting Professors and other minority scientists, and other summer activities. Each student receives a stipend, program paid housing in dormitories at Rice University, and full access to BCM facilities.

Our **HGSC-PGET** post-baccalaureate program provides support for one year to increase URM trainees chances for graduate school acceptance. Our program provides paid salary (and benefits), Kaplan GREprep course, PREP Molecular Cell Biology course, tuition support for college level courses, Ethics in Genomics course, Bioinformatics BootCamp Course, Responsible Conduct in Research course, opportunity to meet Visiting Professors, Weekly Brown Bag Series, and opportunities to present research at student research conferences. We support HGSC Research Technicians who are already on staff and recently graduated URMs with bachelor’s degrees in this program.

**Continued**
Dear HGSC-GGREAT Program Applicant:

The Human Genome Sequencing Center (HGSC) invites your application for the HGSC-G/GREAT (Genetics/Genomics Research Education And Training) program. Your interest in this program implies that you recognize the importance of biomedical research in today's world. Our goal is to offer a unique research training experience that will help undergraduates decide if they should choose a career in this challenging area. If you have already made this decision, participation in a summer program will allow you to further define your goals and to acquire valuable knowledge and skills you will need to attain your career objective. Our HGSC summer research program started in 2003, and our summer program alumni rate this as their best summer research experience.

The Human Genome Sequencing Center wants to increase the number of underrepresented minorities in the genomic sciences (minorities in the genomic sciences are identified as African American, Hispanic American, Native American, and Pacific Islanders). Students with backgrounds in chemistry, biology, math, engineering (electrical, chemical, or computer), and computer science have an excellent opportunity to contribute to the world of genomic sciences because of the Human Genome Project. The program provides minority undergraduate student’s opportunity to work in genetics/genomics, bioinformatics, or engineering research labs located in the Texas Medical Center and receive a competitive stipend. Other program activities include: overview of the importance of genomics; daily noon-time seminars that enhance students' knowledge of biomedicine and their perception of the role science and scientists play in our society; Health Disparities Workshop at M.D. Anderson; Theory and Technique Training course; career choice and professional development activities; a Graduate School Night; and a GREprep course taught by KAPLAN.

The official program dates are June 1st through July 31, 2015. You must be able to participate for 9 weeks during the summer. Participants will receive a competitive compensation. The deadline for submitting application materials is March 13th (postmarked). Applications are not accepted after the deadline, and incomplete applications will not be processed. Acceptance in the program will be assigned as outstanding applicants are identified.

During the summer at BCM, we have a large number of summer research students from all over the country that share an interest in biomedicine and an enthusiasm for learning. Participants will come from diverse geographic, socioeconomic and ethnic backgrounds. Planned social activities will help you meet other participants and participants are expected to live in housing at Rice University. This living experience is an important part of immersion in the program. Parks, museums and shopping centers are within walking distance.

A complete application consists of: HGSC-G/GREAT Program Application which includes the Scientific Background & Skills Assessment, Computer & Engineering Skills Assessment, Research Description, two letters of recommendation with the Student Evaluation forms attached, and official transcripts with all grades through the 2013 fall term from all colleges or universities you have attended. Please submit a one-page statement regarding obstacles you have overcome to gain an education. Use at least a 12-point font. Please submit all application materials to: Dr. Debra Murray, Human Genome Sequencing Center, Baylor College of Medicine, One Baylor Plaza, N1519; MS 226 /Houston, TX  77030. If you have any questions, please contact me at (713) 798-8083 or e-mail ddm@bcm.edu. We look forward to receiving your application with great interest.

Sincerely,

Debra Murray, Ph.D.
Director-Education & Minority Diversity Programs
Human Genome Sequencing Center
Instructor
Molecular and Human Genetics

Attachments
The HGSC-G/GREAT way to do great research and prepare for the GRE!

The HGSC-G/GREAT GRE Prep Course
FREE for participants in the HGSC-G/GREAT Program
at Baylor College of Medicine
Houston, Texas

Enhance and increase your reading and analytical skills for test preparation through this prep course

Our HGSC GRE Prep course Is taught by KAPLAN

You will receive the following:

Diagnostic Test and Student Profile
Kaplan’s GRE Lesson Book
GRE Pocket Reference
Formula and Methods Quick Reference Sheet
Verbal Flashcards
Access to Kaplan’s Online Training Library

All HGSC-G/GREAT participants are REQUIRED to take this course.
Please follow these guidelines to help us provide you with a better review of your application.

- **DO NOT** leave any areas blank on your application unless they do not apply to you. For example: fields for birth date, social security number, citizenship, visa, letters of recommendation section, and the schools attended must be filled out or the application may be mailed back to you, therefore, taking longer to process. Please **do not write “SEE ATTACHED”** on any part of your application. Attached material will not be considered unless it is the one page description of previous research experience or the optional statement regarding obstacles you have overcome.

- Typed responses are preferred, but not required.

- Information on the application MUST be accurate. If you do not take courses or gain skills that you have indicated on the skills rosters in the application, please notify us immediately.

- Resumes, extensive lists of activities or additional lists of academic awards and honors should not be sent. Please use the space provided on the application for relevant information.

- **WE DO NOT ACCEPT** faxed applications, transcripts, or letters of recommendation.

- Using nicknames on applications and letters of recommendation may confuse reviewers. Please inform the person that will write a letter of recommendation to include your full name and social security number.

- Transcripts and letters of recommendation can be submitted in one of two ways. They can be submitted with your application IF they are sealed in an envelope with your professors’ signature across the seal. Otherwise, they need to be submitted directly from the school or individual. **Copies will not be accepted.**

- Prior to the March 13th deadline, you may receive notice of missing information (i.e., transcripts or letters of recommendation) by e-mail. After this initial notice and date, **it is your responsibility to continue to follow-up regarding the status of your application file.**

- **ONLY THE APPLICANT** should inquire regarding the status of their application. Information will not be released to anyone calling on your behalf. This information can be obtained by emailing ddm@bcm.edu or calling 713-798-8083.

- Please provide your first initial and last name at the bottom of every page of the application.

*We have found that following these guidelines will help greatly in processing your application.*

**Good Luck!**

Please mail application materials to:

Dr. Debra Murray  
Human Genome Sequencing Center  
Baylor College of Medicine  
One Baylor Plaza, N1519  
Houston, TX  77030
Calculation of GPA

This calculation must be completed by all applicants whose schools do not provide a calculated GPA on the transcript or whose schools use a system that award other than 4 grade points for an "A". The calculated GPA should be recorded on the first page of the application in the designated position.

If your school(s) provide(s) a calculated GPA with a standard 1-4 point system, you do not need to recalculate your GPA, but you do need to record the GPA provided on your transcript in the designated position on the first page of the application.

To calculate GPA:

1. For each college course in which you have received a letter grade assign the following point value to each grade:
   A=4  B=3  C=2  D=1  F=0

2. For each course in which you received a letter grade, multiply the point value by the number of credit hours. For example an A in a 3 credit (hour) course would be worth 12 grade points.

3. Add the total number of grade points = points x credits.

4. Add the total number of credits.

5. To get the average GPA, divide the answer in #3 by the answer in #4.

6. To be qualified to apply to the HGSC-SRP Program your GPA should be between 3.0 and 4.0.

7. Record the calculated GPA on the first page of the program application.

Rev. 12/2014
### Personal Information

Name:______________  Last    First    Middle

Present Address:____________________________________

- Street
- Apt. No.
- City
- State
- Zip Code

Permanent Address:____________________________________

- Street
- Apt. No.
- City
- State
- Zip Code

Telephone:______________________________

- Permanent
- Cell
- Temporary

email address:______________  Date of Birth:______________  Social Security No.:______________

Sex:  [ ] Male  [ ] Female

Citizenship:__________________  If not U.S., visa type:______________

OPTIONAL: Do you consider yourself a minority?  [ ] Yes  [ ] No

If yes, which minority group:______________

OPTIONAL: List any limiting health conditions that should be considered for the purpose of accommodating living or working conditions:______________

Are you a first generation college student?  [ ] Yes  [ ] No

How did you hear about the HGSC-GREAT Program?______________

### Education (You must submit official transcripts from all colleges you have attended including grades for the 2009 semester.)

- High School:______________  City:______________  State:______________
- College:______________  City:______________  State:______________
- College:______________  City:______________  State:______________

Date of college enrollment:______________  Classification (i.e. Soph, Jr,):______________

- Major:______________  Minor:______________

Current cumulative GPA:______________  Degree & date expected:______________

List any relevant scholarships, awards & honors (College then High School):

List courses in which you are currently enrolled (note any lab courses):

- ______________
- ______________
- ______________

### Career Goals

Post-baccalaureate interest (PhD, MD, MD/PhD, Other) List in order of preference:

- Statement of career objectives:
- ______________
- ______________
- ______________

Please list 3 research areas, in order of preference, in which you are interested to be considered after all genomics placements are filled.

- Biochemistry
- Computational Biology
- Molecular Biophysics
- Pediatrics
- Biomedical Engineering
- Developmental Biology
- Molecular Genetics
- Pharmacology
- Breast Cancer
- Gene Therapy
- Molecular Pathobiology
- Physiology
- Cancer (General)
- Immunology
- Neuroscience
- Structural Biology
- Cardiovascular Sciences
- Microbiology
- Nutrition
- Virology
- Cell Biology
- Molecular Biology
- Pathology
- Other

Human Genome Sequencing Center – Genetic/Genomics Research Education and Training Program (HGSC-G/GREAT)
2014 Application - Deadline March 13th, 2015
Letters of Recommendation

Note: Two letters of recommendation are required. At least one letter should be from a faculty member at your school. If you have had prior research experience, please list the research mentor as reference 1; if you have previously worked at Baylor a recommendation is required from your Baylor research mentor. These should be submitted to us directly from the school or individuals, not the applicant.

<table>
<thead>
<tr>
<th>Reference 1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>University</td>
</tr>
<tr>
<td>Department</td>
<td>Address</td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
<tr>
<td></td>
<td>Telephone</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Reference 2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>University</td>
</tr>
<tr>
<td>Department</td>
<td>Address</td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
<tr>
<td></td>
<td>Telephone</td>
</tr>
</tbody>
</table>

Research and Training Experience

Have you previously participated in a medical or research training program? ____________ If yes, list site(s) and name(s) of program(s).

If you have had research experience, list on a separate sheet of paper the names of research mentors, project title(s), dates and location of your experience(s). Describe one research experience including project, techniques which you used, results achieved (if any) and their significance. **DO NOT EXCEED ONE TYPED PAGE.**

If you have not had the opportunity to obtain prior research experience, on a separate sheet of paper, explain how a research experience would benefit you and describe areas of research in which you are interested.

Have you been previously employed by Baylor College of Medicine? ____________

Personal History

Please submit a one page essay describing obstacles you have overcome in life; also include any interest or experience in programming, bioinformatics. List jobs held with place, dates and position title of employment:

Additional Information

Students are required to spend 9 weeks on site and expected to live in the Rice University dorm located in the Texas Medical Center. The program dates are May 26th – July 25, 2014. Will you require on campus parking? ____________ Will you require vegetarian meals while at Baylor College of Medicine? ____________

Do you plan on or have you taken the MCAT, if so, when? ____________ Please include copy of MCAT and/or GRE scores previously taken.

You MUST list any activities or circumstances that could prevent you from completing the 9-week duration of the program, even if you do not know you will participate in the activity. Do not list other summer research programs. ____________

Certification

"I certify that the information submitted in this application is complete and correct to the best of my knowledge."

Signature ___________________________ Date ___________________________
Research experience is not required for admission, but we need accurate information in order to assess your previous experience and match selected participants to the most appropriate projects. Please complete both sides of this roster by indicating the number of weeks (months, years, check mark is unacceptable) and type of experience or study you have in each category. If you only conducted a few experiments, you may list for example: 2 exps. Place an asterisk next to the experience you do not have now, but expect to have by the summer of 2013. If you do not take a course or attain expected experience, please contact us immediately as this information is extremely important in placement.

### COMPUTER SKILLS

<table>
<thead>
<tr>
<th>Programming languages:</th>
<th>College Lab Experience</th>
<th>College Courses</th>
<th>Work Experience</th>
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</thead>
<tbody>
<tr>
<td>4GL</td>
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<tr>
<td>Basic</td>
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<td>C</td>
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<tr>
<td>C++</td>
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<tr>
<td>Fortran</td>
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<tr>
<td>JAVA</td>
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<tr>
<td>LISP</td>
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<td>Pascal</td>
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<td>Perl</td>
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<td>PROLOG</td>
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<td>tk/tcl</td>
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<td>X-window</td>
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<tr>
<td>Motif</td>
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<tr>
<td>Builder accessory</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Applications:</th>
<th>College Lab Experience</th>
<th>College Courses</th>
<th>Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data bases</td>
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<tr>
<td>E-Mail</td>
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<tr>
<td>Graphics</td>
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<tr>
<td>GUI builders</td>
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<tr>
<td>Image analysis</td>
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<tr>
<td>Modeling</td>
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<tr>
<td>Charmm</td>
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<tr>
<td>Frodo</td>
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<tr>
<td>X-plor</td>
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<tr>
<td>Networking</td>
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<tr>
<td>Signal processing</td>
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<tr>
<td>Simulations</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>Word Processing</td>
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<tr>
<td>Other (specify)</td>
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<tr>
<td>Other (specify)</td>
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<td>Other (specify)</td>
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<table>
<thead>
<tr>
<th>Machines &amp; Operating Systems:</th>
<th>College Lab Experience</th>
<th>College Courses</th>
<th>Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital</td>
<td></td>
<td></td>
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<tr>
<td>Dos/Windows</td>
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<tr>
<td>Macintosh</td>
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<tr>
<td>Silicon graphics</td>
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<td>Sun</td>
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<tr>
<td>Unix</td>
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</tbody>
</table>
### Scientific Background and Skills Assessment

Research experience is not required for admission, but we need accurate information in order to assess your previous experience and match selected participants to the most appropriate projects. Please complete both sides of this roster by indicating the number of weeks (months, years, check mark is unacceptable) and type of experience or study you have in each category. If you only conducted a few experiments, you may list for example: 2 exps. Place an asterisk next to the experience you do not have now, but expect to have by the summer of 2013. If you do not take a course or attain expected experience, please contact us immediately as this information is extremely important in placement.

<table>
<thead>
<tr>
<th>A. Field of Work</th>
<th>College Lab Courses</th>
<th>College Work Experience</th>
<th>Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
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<tr>
<td>Biomechanics</td>
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<tr>
<td>Biomedical Engineeering</td>
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<tr>
<td>Cell Biology</td>
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<tr>
<td>Genetics</td>
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<td>Immunology</td>
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<tr>
<td>Materials Science</td>
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<tr>
<td>Metallurgy</td>
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<tr>
<td>Microbiology</td>
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<tr>
<td>Molecular Biology</td>
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<tr>
<td>Neurobiology</td>
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<td>Pharmacology</td>
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<td>Physical Chemistry</td>
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<tr>
<td>Physiology</td>
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<tr>
<td>Virology</td>
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<tr>
<td>Other (specify)</td>
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<tr>
<td>Other (specify)</td>
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</tbody>
</table>

#### 1. General Laboratory Methods

<table>
<thead>
<tr>
<th>Buffer preparation</th>
<th>pH measurement</th>
<th>Making solutions</th>
<th>Sterile technique</th>
<th>Record keeping</th>
<th>Other (specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

#### 2. Quantitative Methods

<table>
<thead>
<tr>
<th>Protein assays</th>
<th>DNA/RNA assays</th>
<th>Enzyme assays</th>
<th>Other (specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

#### 3. Analytical Methods

**Chromatography:**
- Thin-layer
- Column
- HPLC
- Gas/Liquid

**Spectrometry:**
- UV/VIS
- IR
- GC/MS
- NMR
- CD
- Other (specify)
- Ultracentrifugation

---

<table>
<thead>
<tr>
<th>Analytical Methods (cont.)</th>
<th>College Lab Courses</th>
<th>College Work Experience</th>
<th>Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrophoresis: PAGE</td>
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<tr>
<td>2-D Gels</td>
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<tr>
<td>Agarose</td>
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<tr>
<td>SSCP</td>
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</tbody>
</table>

Western blotting
Protein expression
Protein purification
Other (specify)

#### 4. Microscopy

- Light microscopy
- Fluorescence
- Transmission EM
- Scanning EM

**Tissue Preparation:**
- Light EM
- Frozen sections

Cytogenetics
Histochemistry
Other (specify)

#### 5. Recombinant DNA

- DNA/RNA isolation
- Plasmid preparation
- Restriction mapping
- cDNA synthesis
- Cloning
- Construct preparation
- Library screening
- Southern hybridization
- Northern hybridization
- PCR
- Sequencing
- Translation
- Transfection
- DNA chip analysis
- Other (specify)

#### 6. Tissue Culture

- Cell culture
- Organ culture
- Cell transformation
- Cell fusion
### Scientific Background and Skills Assessment (Continued)

<table>
<thead>
<tr>
<th>Tissue Culture (cont.)</th>
<th>College Lab Experience</th>
<th>College Courses</th>
<th>Work Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal passage</td>
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</tr>
<tr>
<td>Media Preparation</td>
<td></td>
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<tr>
<td>Other (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Microbiology, Immunology & Virology methods

- Antibody production
- Antibody purification
- RIA
- ELISA
- Organism culture
- Handling pathogens

8. Animal Handling

- Animal care
- Animal surgery

Do you object to working with rats or mice?  Yes  No

9. Radioisotope Methods

- Radiotracers
- Radiolabelling
- Scintillation counting
- Gamma counting
- Radiation monitoring
- Other (specify)

10. Computer Technology

- Mainframe
- Micro
- PC
- Excel
- Powerpoint
- html
- Graphics
- Other (specify)

11. Writing

- Editing manuscripts
- Manuscript writing

If you have skills or experiences that are not indicated on this roster, please include this information in the space provided below.

**Other (specify)**

---

**Independent Study:** Please list any participation in undergraduate independent research projects.

---

**List Publications (if any):**

---
Applicant Evaluation Form - 1

Student's Full Name: ____________________________

Students Social Security Number: ____________________________

College / University: ____________________________

Faculty Evaluator: ____________________________ Phone: ____________________________

Faculty Evaluator’s Signature: ____________________________

How long have you known the student? ____________________________

In what capacity? ____________________________

Please rate the student in all categories with which you feel qualified to assess characteristics relative to other students at the same academic classification (i.e., freshman, sophomore, etc.) with whom you have had contact. Place an (X) in the field that best describes the student’s characteristic.

<table>
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<tr>
<th>Characteristic</th>
<th>Outstanding</th>
<th>Excellent</th>
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Please include a letter of recommendation along with this form that provides any information you feel would be helpful in assessing the student's placement in the HGSC-GGREAT Program, including obstacles the student has overcome. Return this form with the letter of recommendation to:

Dr. Debra Murray  
Baylor College of Medicine  
Human Genome Sequencing Center  
One Baylor Plaza, N1519; MS 226  
Houston, TX 77030
Applicant Evaluation Form - 2

Student's Full Name:

Students Social Security Number:

College / University:

Faculty Evaluator: Phone:

Faculty Evaluator’s Signature:

How long have you known the student?

In what capacity?

Please rate the student in all categories with which you feel qualified to assess characteristics relative to other students at the same academic classification (i.e., freshman, sophomore, etc.) with whom you have had contact. Place an (X) in the field that best describes the student’s characteristic.

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