BEAM- ITEST Saturday Academy

For students in grades 9-12 interested in Biotechnology, Genetic Engineering and Bioinformatics

BEAM is a program for minorities and young women interested in exploring careers in engineering and other technical fields. Programs are designed for academically qualified students who want to discover the wonder and excitement of science, technology, engineering, and math in a hands-on environment.

BEAM- ITEST (Innovative Technology Experiences for Students and Teacher) is a partnership with the University at Buffalo. They are conducting a research project on a hands-on cyber-learning approach to bioinformatics with teachers and high school students. Bioinformatics is the use of computers to store, search and characterize the genetic code of genes, and the proteins linked to each gene and their functions. Bioinformatics is a rapidly developing branch of biology that also includes informatics, statistics, mathematics, chemistry, biochemistry, physics, and linguistics.

What is the time commitment involved with my participation?
You will participate in activities where you will learn about bioinformatics and careers in science, technology, engineering and mathematics (STEM). The research will take place during Saturday academy activities that will be offered as a result of the research project.

What are the benefits of my participation in this research?
You may learn new skills in analysis, synthesis and in the presentation and interpretation of results, as well as knowledge of careers in STEM. Your participation in the research may contribute to our knowledge of how to teach genome analysis and bioinformatics most effectively, something that may help future students by providing them with better science instruction.

When: Every other Saturday during the school year beginning September 19th. (Note: Students from other Saturday Academies can also participate in ITEST Saturday Academy) Dates run opposite each other.

Time: 9:30a.m. - 11:30a.m.

Where: UB North Campus, Park Hall Rooms 143 & 148

Parent Orientation will be held during the first meeting on September 19, 2015 at 9:30am. Students will present their research poster on Friday May 20, 2016.
2015-2016 Saturday Academy

Deadline for Application: September 18, 2015

It is recommended that students applying for the BEAM program have an interest in engineering and/or other technical fields, and enjoys learning about Math and Science.

(Please print clearly)

Name: __________________________      _____      ____________________________
(First) (M.I.) (Last)

Address: _______________________________________
(Street/Apt. #)

Phone:_____________________________________
(Home Phone)

______________          ___________
(City, State) (Zip)

Cell:_____________________________________
(Student Cell)

Student Email Address: ________________________________

Sex: □ Male  □ Female

Race: □ Black    □ Hispanic    □ Asian    □ Native American    □ White    □ Other/Multi-Racial

Current Grade: □ 9th □ 10th □ 11th □ 12th

Current School: _______________________________________

Mother’s Name: ____________________________

Father’s Name: ____________________________

Mother’s Address: ____________________________
(if different than student’s) (Street/Apt#)

____________________________
(City, State) (Zip)

Father’s Address: ____________________________
(if different than student’s) (Street /Apt #)

____________________________
(City/State) (Zip)

Mother’s Email: ____________________________

Father’s Email: ____________________________

Mother’s Cell: ____________________________

Father’s Cell: ____________________________

Mother’s Home Phone: ____________________________
(if different than student’s)

Father’s Home Phone: ____________________________
(if different than student’s)

Please return application to: BEAM 115 Bonner Hall University at Buffalo, Buffalo, NY 14260 or email to beamprogram@gmail.com or fax to 716-645-2495, by September 18, 2015
Check the BEAM program(s) you have previously participated in:

- Post 7th grade at Daemen College
- Post 8th grade at Buffalo State College
- Post 9th/10th grade at Canisius College
- Post 11th grade at University at Buffalo/Research Honors
- Girls Camp at E.O.C.
- School- BEAM club

Check the BEAM program(s) you are you applying for this year:

- 7th & 8th grade Buffalo Museum of Science
- 9th & 10th grade UB North - 211 Furnas Hall
- 11th & 12th grade UB South - 205 Diefendorf Hall
  **AND**
- 9th – 12th grade BEAM- ITEST- UB North
  Campus- 143/148 Park Hall

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**Student:** I understand that as a student in Buffalo Engineering Awareness for Minorities, Inc., (BEAM), I must strive to maintain a high scholastic average, attempt to attend sessions faithfully, and agree to follow the math/science curriculum.

**Parent:** I hereby grant BEAM the right to record my child’s likeness on film and/or video for our print and/or web-based promotional materials. I give my child permission to participate in all of BEAM’s field trips and events.

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Student’s Signature: ___________________________ Date: ___________________________

Parent’s Signature: ___________________________ Date: ___________________________