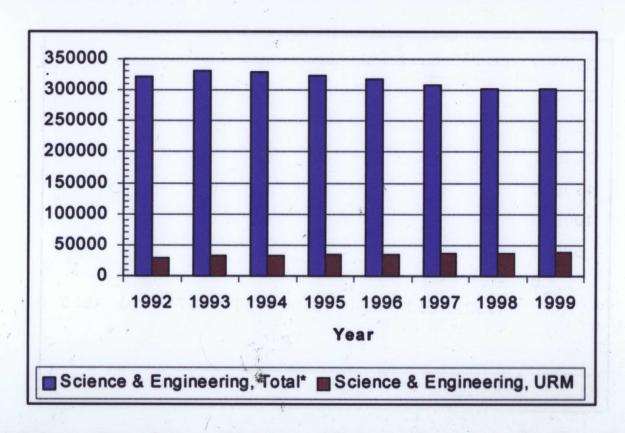
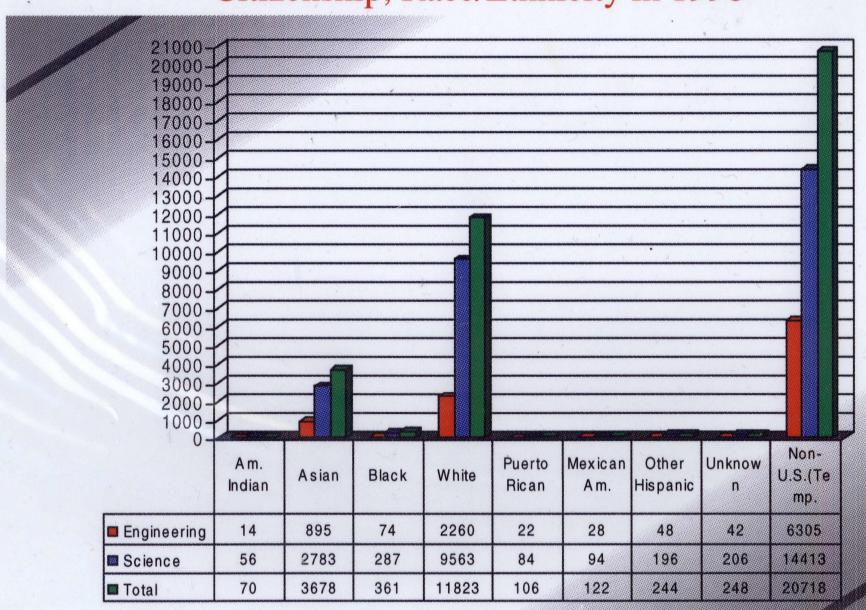
Science and Engineering Graduate Student Enrollment

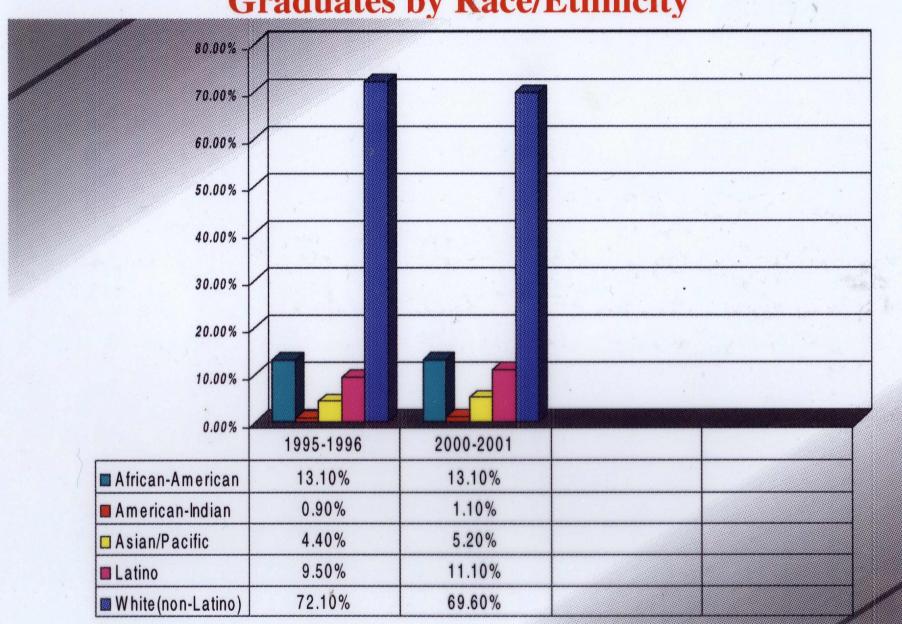


National Science Foundation, Division of Science Resources Studies, *Graduate Students and Postdoctorates in Science and Engineering: Fall 1999*, NSF 01-315, Project Officer, Joan Burelli (Arlington, VA, 2001)

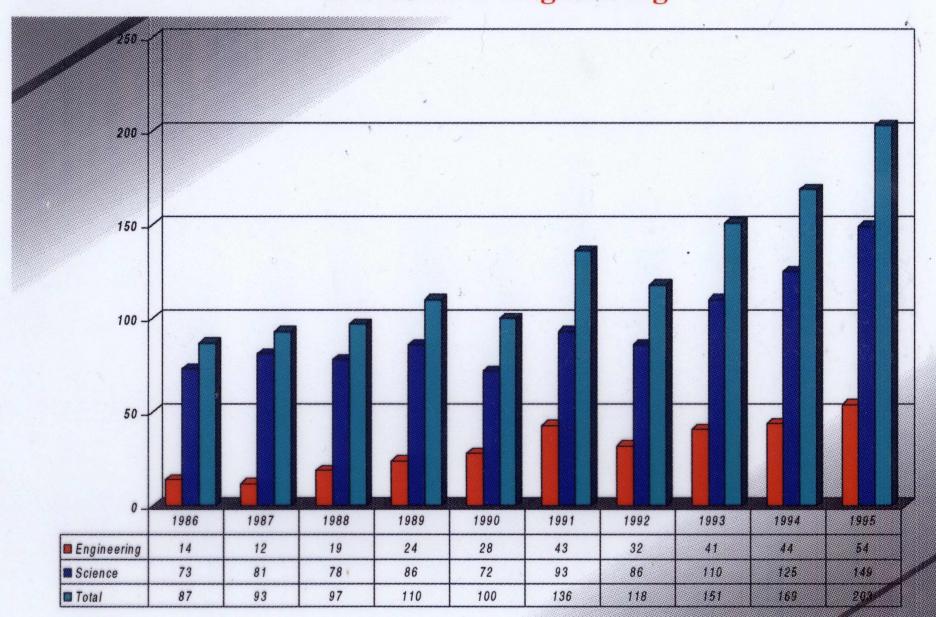
Number of Ph.Ds Recipients in Eng.&Science by Citizenship, Race/Ethnicity in 1996



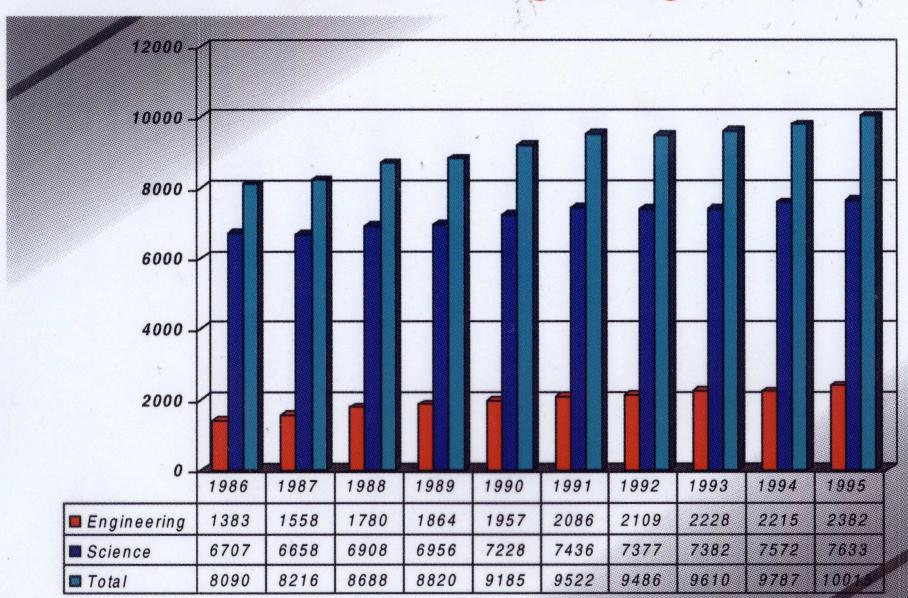
Percent of Public School Graduates by Race/Ethnicity



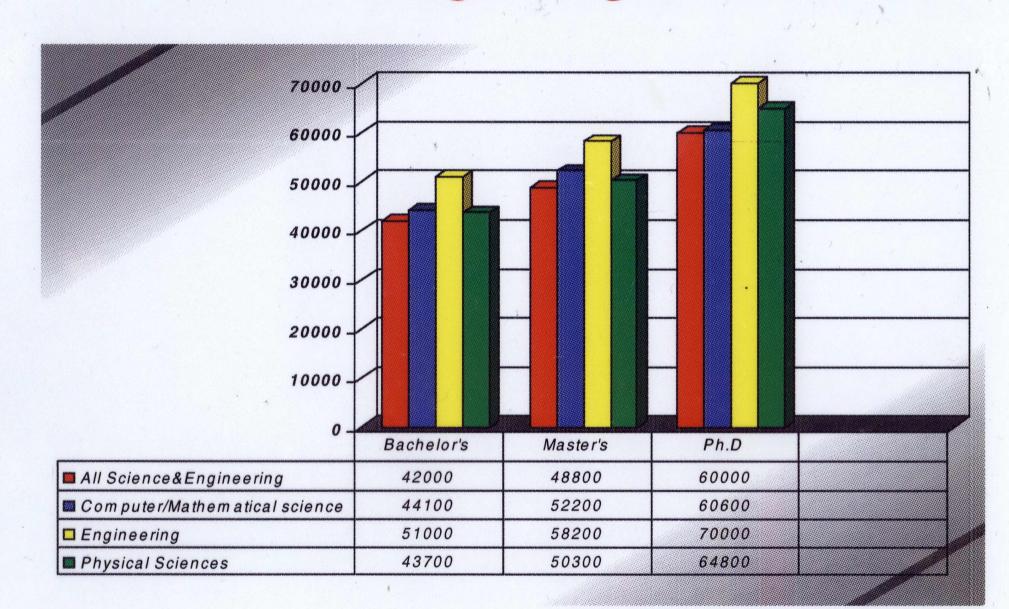
Doctorates Awarded to Black U.S. Citizens in Science & Engineering



Doctorates Awarded to All U.S. Citizens in Science & Engineering

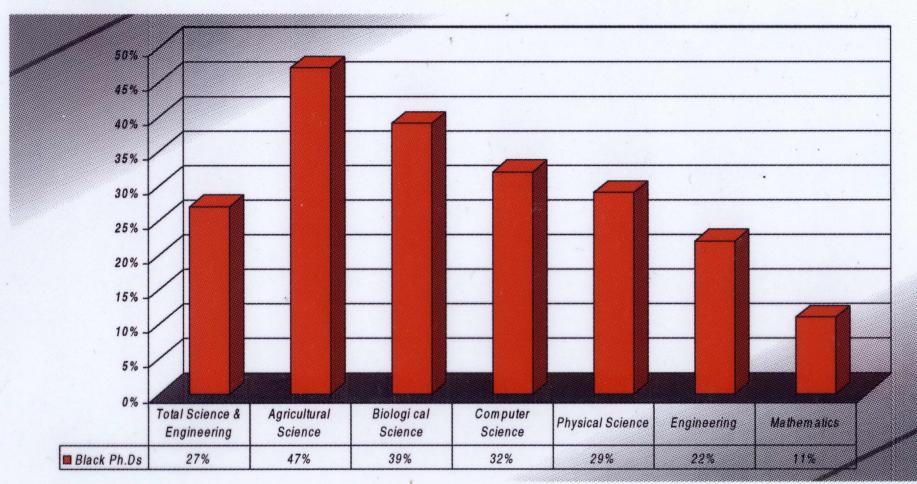


Median of Salaries by Field & Level of Highest Degree



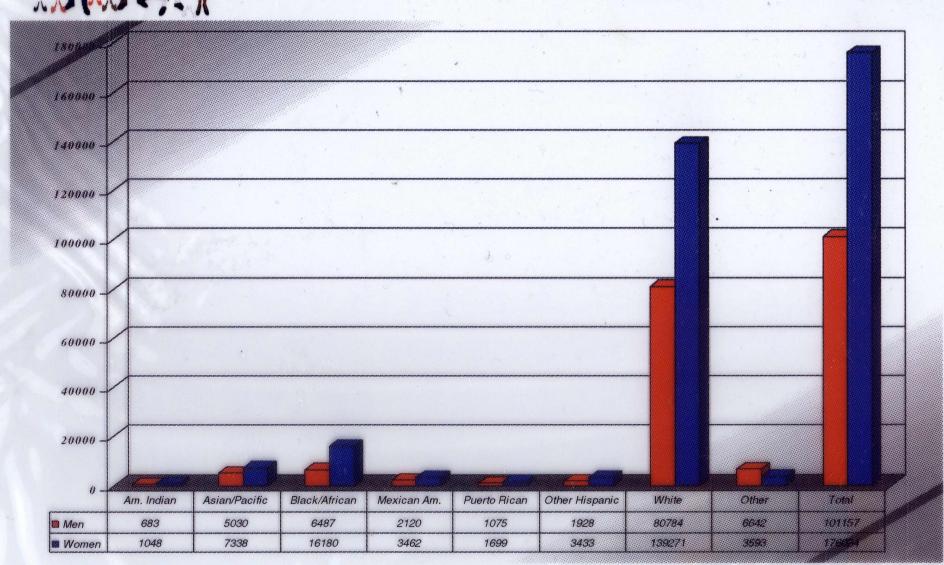


Black Ph.Ds Recipients with B.S. Origins in Historically Black Universities

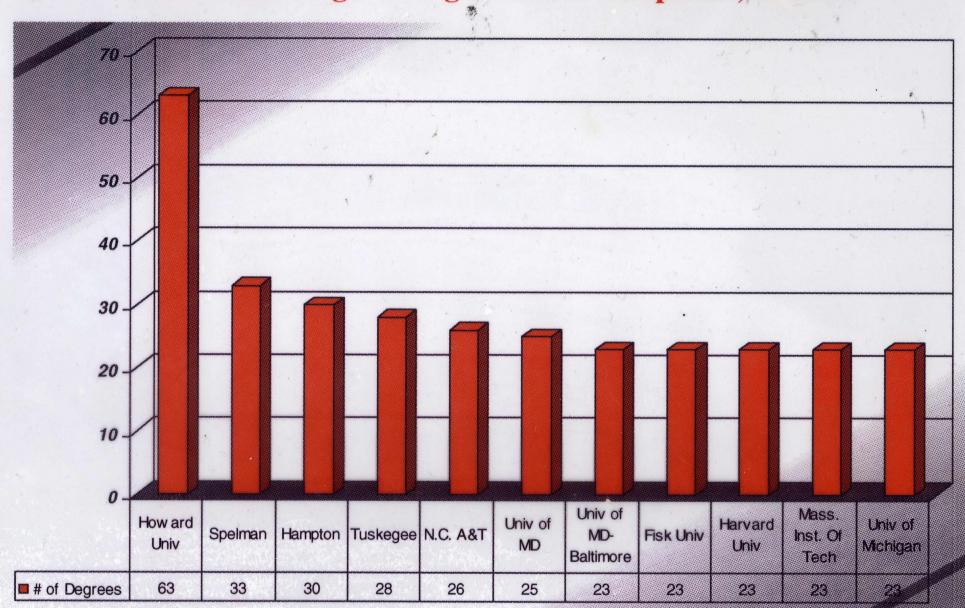


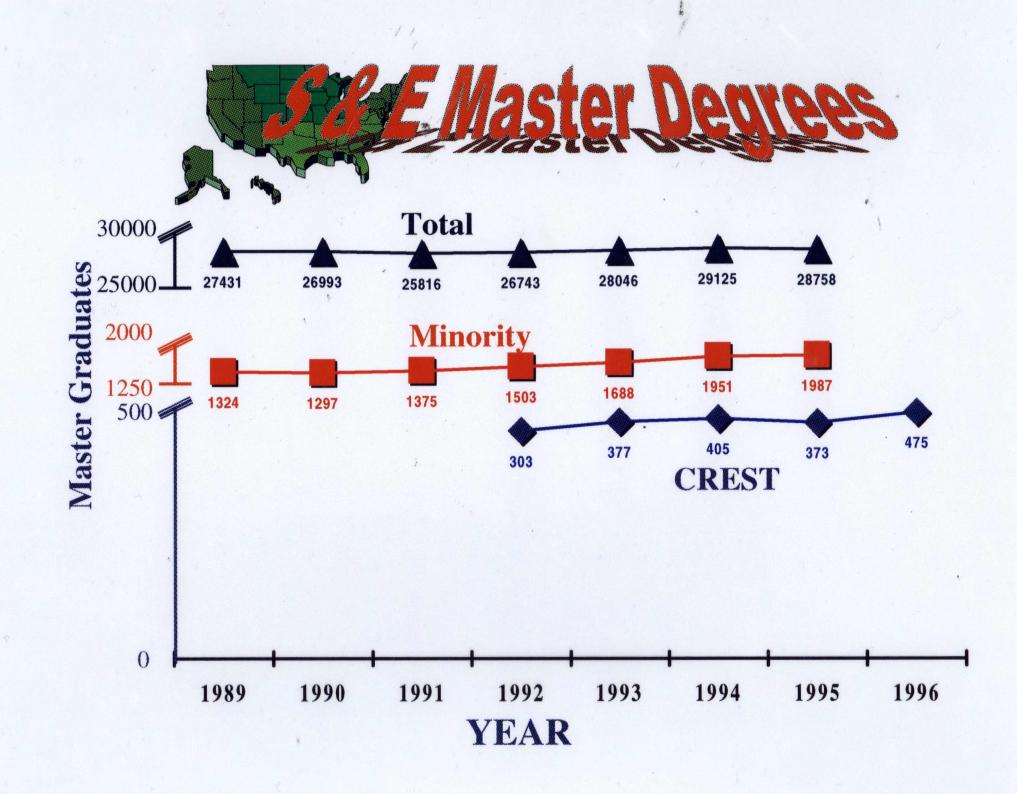


GRE General Test Score Information by Ethnic Group and Sex: 1995-96

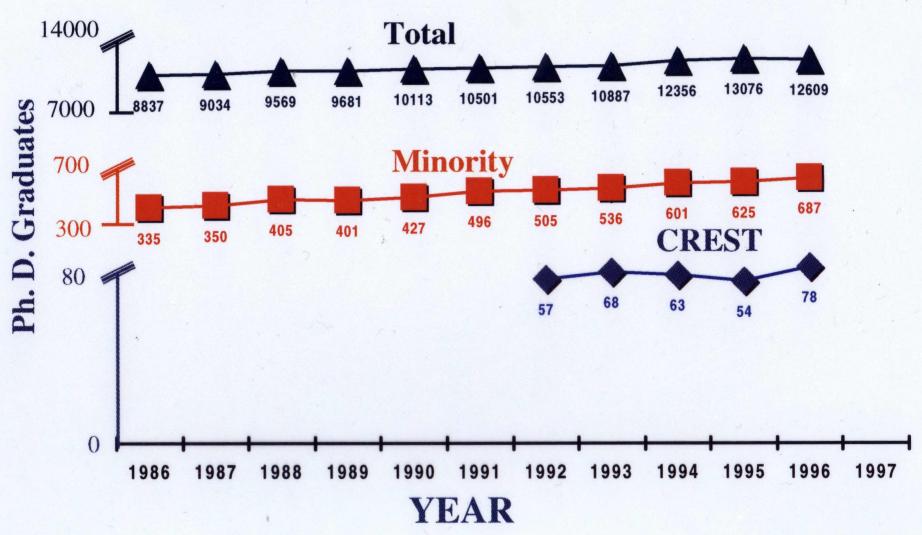


Leading Colleges of Baccalaureate Origin for Black Science and Engineering Doctoral Recipients, 1988-93

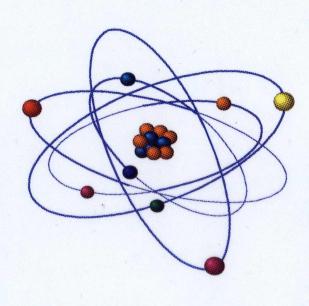








CENTERS OF RESEARCH EXCELLENCE IN SCIENCE AND TECHNOLOGY (CREST)



- WHAT IS THE CREST MISSION?
- IS IT WORKING?
- WHAT IS THE OUTCOME?
- WHAT WILL BE THE FUTURE IMPACT?

- HOWARD UNIVERSITY
 - FOCUS: ELETRONIC AND ELECTO-OPTIC DEVICE MATERIALS
 - MBE MATERIALS GROWTH
 - INVITED PARTICIPANT IN THE NATIONAL NANOFABRICATION USERS NETWORK (NNUN) CENTERED AT CORNELL UNIVERSITY

- ALABAMA A&M UNIVERSITY
 - FOCUS: NONLINEAR OPTICS AND NONLINEAR OPTICAL MATERIALS.
 - CRYSTAL GROWTH AND MATERIALS CHARACTERIZATION FACILITIES
 - COLLABORATION WITH LUCENT, UNIVERSITY OF MICHIGAN CENTER FOR ULTRAFAST OPTICAL SCIENCE, AND HUGHES ELECTRO-OPTIC DIVISION.
 - NEW PH.D. DEGREE IN PHYSICS & AWARDED 13 TO MINORITIES SINCE 1991.

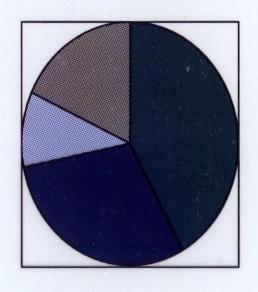
- CLARK ATLANTA UNIVERSITY
 - FOCUS: THEORETICAL STUDIES OF PHYSICAL SYSTEMS. SELF-ORGANIZING SYSTEMS. WAVELET RESEARCH FOR REAL-TIME TRAFFIC CONTROL
 - EXTENSIVE COMPUTING FACILITIES, INCLUDING THE MOST POWERFUL CRAY PLATFORM IN GEORGIA.
 - HOSTED SEVERAL INTERNATIONAL MEETINGS. ALLIANCES WITH IBM & CRAY.

HAMPTON UNIVERSITY

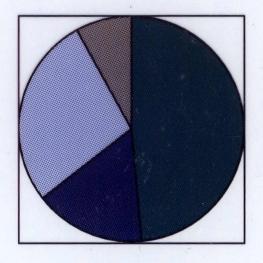
- FOCUS: NUCLEAR AND HIGH ENERGY PHYSICS; NEW PH.D. PROGRAM.
- PARTNER WITH THE THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY & U. of MICHIGAN STC.
- QUARK CLUSTERING PUBLICATIONS IN PHYSICAL REVIEW LETTERS.
- HAMPTON STUDENTS HELPED DEVELOP A WORLD CLASS BEAMLINE at TJNAF..

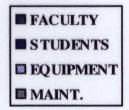
1997 CREST IS IT WORKING? INPUT!

NSF SHARE: \$9.38 MILLION
PARTICIPANTS SHARE: \$2 MILLION
NSF COSTSHARE









1997 CREST IS IT WORKING? IMPACT!

GENERATION AND DISSEMINATION OF NEW KNOWLEDGE

- •CROSSING THE BOUNDARY BETWEEN QUANTUM PHYSICS AND REAL TIME TRAFFIC CONTROL WITH WAVELETS.
- •FABRICATING THE MOST PRECISE ROBOTIC PHOTOMETRIC TELESCOPES BY MIXING CONTROL SYSTEM RESEARCH AND ASTRONOMY.
- SHARING KNOWLEDGE ON ACCELERATOR PHYSICS BETWEEN HIGH ENERGY PARTICLE RESEARCH AND ULTRA FAST PHOTONIC PROJECTS.

CREST OUTPUTS FOR 1997

PUBLICATIONS IN REFEREED JOURNALS: UNDERREPRESENTED MINORITY Ph.D. DEGREE UNDERREPRESENTED MINORITY M.S. DEGREES	292
	78
	475
LINDED CD ADUATE DECEADOU EVDEDIENCES.	15

CREST OUTCOMES! FY1987-1997

- NEW Ph. D. DEGREE PROGRAMS WITH CONNECTIONS TO OTHER MAJOR INSTITUTIONS AND NSF CENTERS.
- COLLABORATIONS WITH THE AMP PROGRAMS FOR RESEARCH EXPERIENCE FOR UNDERGRADUATES.
- MAJOR INCREASES IN SCIENCE & ENGINEERING INFRASTRUCTURE