A 2014 Study: The STEM Crisis

https://www.nms.org/AboutNMSI/TheSTEMCrisis/STEMEducationStatistics.aspx
65 High Demand Careers in Georgia – Sectors needing “STEMites”

• Aerospace (9)
• Agriculture & Food (4)
• Automotive Manufacturing (10)
• Defense (13)
• Healthcare & Life Sciences (6)
• Information Technology (14)
• Logistics and Transportation (3)
• Manufacturing (6)
Georgia Department of Education

STEM Efforts

- Current Approved Computer Science Course List:
  - Advanced Placement Computer Science A
  - Advanced Placement Computer Science Principles
  - International Baccalaureate Computer Science, Year One
  - International Baccalaureate Computer Science, Year Two
  - Computer Science Principles
  - Programming, Games, Apps and Society
  - Web Development
  - Embedded Computing
  - Game Design: Animation and Simulation
Georgia Department of Education STEM Efforts

- 28 STEM Certified Schools
- 103 of Georgia’s school districts currently have at least one school working toward STEM certification.

www.stemgeorgia.org
STEM Teacher Endorsement Program will prepare candidates who demonstrate:

• An understanding of STEM education as an interdisciplinary endeavor;
• That they understand and can engage learners in the ways of thinking and habits of mind used in STEM and STEM related fields;
• An understanding and ability to demonstrate the role of meaningful collaboration and partnerships;
• The ability to engage students using STEM and STEM related discipline pedagogical practices; and
• The ability to participate in authentic experiences in STEM and STEM related careers and teaching environments (a clinical component).
USG STEM Efforts

• STEM Initiative Phase I and II
  • 10 Complete College GA STEM Innovation Grants funded in FY16

• STEM Initiative Phase III – Education Improvement Plans – 14 new grants provided

• Regents’ Engineering Transfer Program

• 5 STEM Pathways Grants
STEM Supported Legislation

HB 801 –
Georgia Compared With the Nation

Georgia is in the lowest quartile of degree production