



## Major in Physics or Astrophysics

Students with majors in Physics or Astrophysics are expected to solve fundamental problems of classical and modern physics using necessary mathematical skills. They must develop an approach to solving unknown problems using principles and tools learned in mechanics, thermodynamics, quantum physics, and optics. Astrophysics majors also need to be able to apply principles of physics to problems relating to planets, stars, galaxies, and cosmology.

## Internship and Research Sites (\*recent Scottie sites)

- ASC Professors' Research labs (research)\*
- Center for Sustainability (ASC)\*
- Colgate University (w/ travel to Apache Point Observatory) REU\*
- Columbia University REU\*
- DAAD RISE Germany
- Environmental Protection Agency\*
- The Home Depot (IT)\*
- Howard University REU\*
- Laboratoire d'Optique Applique (research)\*
- Louisiana State University REU\*
- Princeton University, Molecular Biophysics REU\*
- Space Telescope Institute of Science REU\*

## Campus & Community Involvement

*Get involved during your undergraduate career, both on campus and in the local community:*

### Campus Involvement

- Bradley Observatory
- Science Center for Women Tutors
- STEM Siblings
- STEM Scholars

### Community Engagement

- National Engineers Week Atlanta
- Atlanta Science Festival
- Tutoring (SPARK, Decatur HS, Global Village Project)

## Career Fields

- Astronomy
- Data Sciences/Analytics
- Environmental Sciences
- Engineering
- Health Physics
- Product Design
- Public Service
- Software Development

## Learning Beyond the Classroom

*Seek out opportunities to develop these skills and experiences:*

- Research and Analysis
  - Compiling analyses and results from a variety of data sources
  - Writing/presenting findings
- Communication & Teamwork
  - Team-based problem solving
  - Presentation skills
  - Technical writing skills
- Project Leadership
  - Interpersonal skills
  - Organization and time management skills
- Digital Fluency
  - Coding languages: SQL, Java, Python, C+
  - Manipulating large data sets
  - Visualization software: Tableau, etc.
  - Statistical software

## Entry - Level

Research Analyst/Assistant  
 Physics Teacher/Tutor  
 Project Coordinator  
 IT Analyst/Developer  
 Technical Support  
 Technical Writing

## Mid - Career \*

Engineer  
 Project Manager  
 Data Scientist  
 Environmental Scientist  
 Research and Development  
 (R&D) Scientist

*\* May Require Graduate Degree*

## Late - Career \*

Research and Development  
 (R&D) Director  
 IT Director  
 Senior Engineer  
 Physician

## Alumnae in the Workplace

**Alston & Bird**  
*Patent Law*

**Astronomy Magazine**  
*Editing*

**GreenSky Credit**  
*Technical Analytics*

**FivePoint Payments**  
*Software Development*

**Healthcare Tech**  
*Research and Analysis*

**The Home Depot**  
*Information Technology*

**Lenior- Rhyne College**  
*Student Life*

**Novum Pharmaceutical Research Services**  
*Medical Writing*

**QGenda**  
*Business Analytics*

**Project Inspire**  
*Teaching*

**Techbridge Girls**  
*Program Management*

**Tranact**  
*Software Engineering*

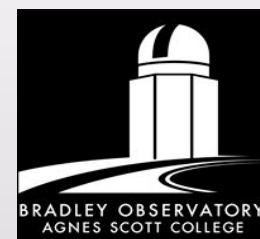
**Tuskegee University**  
*Research and Development*

## Keeping Up With the Trends

*Build your career literacy and applied knowledge by following industry groups and news. Join professional associations as a student member to attend events highlighting industry news and professional networking. Ideas include:*



National Science Foundation



Bradley Observatory



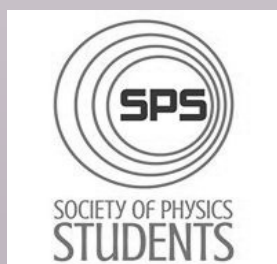
Physics Today



SARA—Southeastern Association for Research in Astronomy



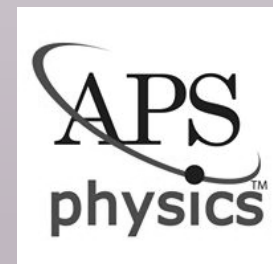
Tellus Museum



The Society of Physics Students



The American Association for the Advancement of Science



American Physical Society