STRIDE: Science Training and Research to Inform DECisions

Stony Brook University and the Institute for Advanced Computational Science invite students to take part in STRIDE: Science Training and Research to Inform DECisions.

Within all sectors of industry and government, effective decision making depends on the ability of scientists to interpret data and communicate results in a way that supports the decision-making process. Learn how to communicate your research to the policy makers; understand the perspectives of stakeholders; and translate scientific uncertainty into action.
Science Training & Research to Inform DEcisions (STRIDE)

“data-focused” skills:
- modeling
- statistics
- computation
- visualization

Decision-making requires a rapid response ➤ Need experts that straddle the traditional divide between data-science and policy
Vertically-integrated graduate training:

- Connects scientific and computational research to decision support
- Preparation for high-impact careers (academic, industrial, government, and non-profit settings)
- Connects science to real-world applications
Research Themes

Climate Change and Coastal Resilience

Marine Resource Management

Tracking and Targeting Illegal Deforestation

Powering the Smart Grid Through Data Infrastructure
Departments

• Applied Math & Statistics
• Biomedical Informatics
• Computer Science
• Ecology & Evolution
• Electrical & Computer Engineering
• Journalism
• Marine and Atmospheric Sciences
• Public Health (pending)
• Technology & Society

Internship Partners

• National Oceanic & Atmospheric Administration (NOAA)
• Antarctic Southern Ocean Coalition (ASOC)
• Brookhaven National Laboratory (BNL)
STRIDE Mentoring Model

- Research Advisor
- Referral to appropriate resources

- STRIDE Mentor
- Guiding research progress
- Connecting student with career appropriate academic networks

- Peer Mentoring
- Conduit for connecting student to STRIDE specific resources and networks
- Communication and decision support
STRIDE Fellowships

Domestic STRIDE trainees working with participating faculty are eligible for a limited number of paid fellowships:

• Stipend of $34K
• Tuition, health insurance fully covered
• $200/year for books

STRIDE Internships

• Internships are available to all STRIDE trainees
• National Oceanic & Atmospheric Administration, Antarctic and Southern Ocean Coalition, Brookhaven National Laboratory, etc.
• Fully funded by STRIDE
• Internships will run 6-8 weeks
Seminars

- STRIDE-Con
- Many Paths to Science
- Monthly Brown Bag Lunches
- Data-visualization contest