



# The Sanford PROMISE

*Program for the Midwest Initiative in Science Exploration*

Our mission is to increase the community's understanding of science and their awareness about the benefits of research to our society. Programs are aimed at school-aged students, undergraduates, educators and science-minded people in the communities that Sanford Health serves. Ultimately, this program provides framework to engage and excite communities, providing the atmosphere to support and inspire our next generation of scientists. The information below is the current framework for The Sanford PROMISE:

## Phase I: Learn to Teach

Select Sanford scientists participate in a unique Life Science Curriculum Development program, facilitating career enrichment through teaching experience in hands-on learning approaches. The selected Sanford Scientists, develop original lesson plans with biological relevance to their own research projects. At the culmination of the training portion, trainees are encouraged to apply for a six month internship with The Sanford PROMISE to help develop and facilitate programming for other phases of the program.

## Phase II: Teach to Learn

This portion of the program focuses on empowering teachers to feel confident in training our future scientists in biomedical oriented project based learning programs, or experiences or curriculum.

### ***Professional Development Training for Regional Educators***

This is a professional workshop for life science teachers and pre-service teachers (Biology Education majors) looking to learn more hands-on activities to do with their students. Teachers attending the 2 ½ day workshop held at the Sanford Research Center will learn science lessons that mirror actual lab techniques. Teachers will also be provided with all materials and reagents required to bring the activity back to the classroom.

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## Phase III: Love to Learn

This portion of the program focuses on school-aged students. Although we plan to expand this program to encompass students of all ages, the first year our target audience will be science students ages 13-18. Additional programs will be developed to broaden the topics taught (including clinical medicine and research, as well as, earth and life sciences).

### ***Science Days***

Sanford will host groups of students (girl and boy scouts, schools) at the Sanford Research Center and engage them with live science demonstrations and discuss science careers. We recently hosted 70 Girl Scouts in conjunction with the South Dakota Chapter of GWIS at the Sanford Research Center and are already planning continued events.

### ***Life Science Discovery Program***

In partnership with the Washington Pavilion, this program engages 13-18 year old students in hands-on science investigations. We are currently offering a session in DNA Exploration and plan on offering additional summer sessions such as “Forensic Science,” “Biomedical Investigations,” and “The Microbial World.”

### ***The Sanford PROMISE Shadowing Program***

The shadowing program gives students a chance to observe a scientist at Sanford Research for the day. Participants must be at least 16 years old and can work across labs in Cancer Biology, Cardiovascular Health, Health Disparities, Children’s Health and the Sanford Project (diabetes research).

### ***The Sanford PROMISE Summer Internship***

High school juniors can apply for an internship spending six weeks working along Sanford scientists in a research lab during the summer. Interns will work on a research project and learn laboratory skills to enhance their college application and create a long lasting impression of Sanford Research. Upon successful completion of this program, interns will be awarded a \$2,500 scholarship and select interns will be sponsored to present their work at national science competitions.

## Phase IV: Learn for Success

This portion of the program focuses on recruiting and retaining undergraduate students focused on science research into Sanford labs and are aimed at sparking interest in science research careers, enhancing their resume for job applications or graduate school.

### ***SPUR (Sanford Program for Undergraduate Research)***

Undergraduate students interested in biomedical research can apply for a paid summer internship. Students will perform independent research in the laboratory of a Sanford scientist or Augustana faculty. Students will gain valuable research experience by applying their classroom knowledge to an independent research project.

### ***SURE (Science Undergraduate Research Experience)***

American Indian undergraduate students can apply for a paid summer internship with research faculty in the Sanford School of Medicine at USD. Students will gain valuable research experience by applying their classroom knowledge to an independent research project.

## Phase V: Learning for Life

Learning should never stop...not at any age. This portion of the Sanford PROMISE expands our programming to encompass “students” of all ages by providing science programming across the entire community, promoting the Sanford Research mission.

### ***Learning for Life: Science Lecture Series***

In order to directly engage science-minded people in the community we will host a science lecture series. Monthly lecture topics will focus on ongoing research conducted in the region, including work performed by Sanford scientists.