

SCIENCE TEACHING POSITIONS
WITH THE
Regional Math/Science Center
Frostburg State University
Summer Program 2017

The Upward Bound Regional Math Science Center (RMSC) at Frostburg State University seeks teachers for a 5- week summer programs designed to encourage and motivate qualified high school students to pursue post-secondary education and to develop skills and attitudes essential for success beyond high school.

POSITION DESCRIPTION:

The RMSC is currently recruiting dynamic Science teachers that will engage our high school aged students in a science research projects in the areas of **environmental science, robotics, and computer programming**. Teachers will guide students through the process of the scientific method, writing a scientific paper, and presenting their own research findings. The teachers will work closely with the RMSC staff throughout the spring to develop science projects and then implement the projects over a summer program at Frostburg State University. It is a challenging and rewarding teaching opportunity.

QUALIFICATIONS: Bachelor's degree in a science or science education field preferred. Upper level undergraduate students with experience in science research and teaching may apply.

TENTATIVE DATES: June 11 - July 21, 2017 includes a five-week program and one training week.

(Curriculum development takes place throughout the spring semester)

SALARY: \$2,300-\$2,800 (Salary commensurate upon experience)

FOR MORE INFORMATION: www.frostburg.edu/clife/mscenter; 1-800-646-6004 or 301-687-4295

TO APPLY: Send a letter of interest; resume; and names, addresses, and telephone numbers of three professional references to the address below. If you are currently working to complete a degree, please also include your college transcript. If you have questions feel free to give us a call, send us an email or stop in to talk with us.

Regional Math/Science Center
101 Braddock Road
Frostburg State University
Frostburg, MD 21532

OR **RMSC@frostburg.edu**
*If applying via email please indicate position
and your name in the subject line:
ex: English Teacher– Jim Smith*

DEADLINE: Applications are reviewed upon arrival and interviews will be schedule. Applications will be accepted until all positions are filled. Early application is encouraged.

Info for interested science teacher candidates:

- Dates:
 - June 11 to July 6 (3-week project)
 - June 11 to July 21 (5-week project)
- Science Projects
 - Hands-on
 - Typically based in environmental science, but other project ideas are welcomed (previous projects are available on our website)
 - Students present studies at end of program
 - One 3-week project designed for rising 10th grade students (intermediate researchers)
 - Emphasis on critical thinking and thorough responses to guided questions that parallel the scientific method and paper format
 - Guided hypothesis development, data analysis and conclusion formulation
 - Poster presentations
 - Two 5-week projects designed for rising 11th-12th grade students (advanced researchers)
 - Research background materials (readings and studies)
 - Develop hypothesis
 - Develop method to test hypothesis
 - Collect and analyze data (typically statistical analysis)
 - Draw conclusions
 - Writing and revisions of a science research paper
 - Presentation to panel of scientists at end of summer (power point)
 - individual papers scored using a rubric at the end of the summer
- Student Groups
 - ~12 to 15 students per science project group
 - Mixed abilities
 - 5-week projects are mixed grade levels (11th & 12th graders can all be in same group)
- Teacher Responsibilities
 - Develop a project and draft of a paper prior to start of summer
 - Assist students in the development of the project (we want students developing the project – not just being told what to do next)
 - Assist students in the writing of their scientific papers/thorough question responses
 - Revise papers/responses throughout the summer using our rubric
 - Provide feedback to students and make sure they are making revisions based on feedback
 - Assist students in preparing their final presentations
 - Grade final papers/responses using our rubric

About the Regional Math/Science Center

The FSU Regional Math/Science Center is a federally funded Department of Education Upward Bound program designed to help low-income, potential first generation college students achieve their goals of attaining college degrees, specifically in the fields of math and science. Participants in the program attend a multi-week summer session on the campus of FSU where they are engaged in a scientific research project. The RMSC strives to develop exciting hands-on projects that are relevant to modern life.

While working on these projects the practical use of the scientific method is emphasized. Students must develop testable hypotheses, help design the study, collect the data needed, analyze the data, draw conclusions based on the data collected and finally present their study in both oral and written form. Students learn about peer review as they present their study progress each week to the other students in the program. They also learn to use the computer for data analysis, for data processing their formal report, and for developing a power point presentation that is presented to a panel of scientists and an audience of parents, university, and public officials.

While at FSU students also participate in a variety of activities designed to promote strong study skills and positive social behaviors, as well as activities that provide recreational and cultural experiences.

FSU Is An AA/EOE. Appropriate Auxiliary Aids & Services For Qualified Individuals W/Disability Will Be Provided Upon Request. Please Notify In Advance. WWW.FROSTBURG.EDU