

SCIENCE TEACHING POSITIONS

WITH THE

Regional Math/Science Center

Frostburg State University

Summer Program 2020

The Upward Bound Regional Math Science Center (RMSC) at Frostburg State University seeks teachers for our 2-week, 3-week and 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 who will engage our high school aged students in science research projects in the areas of environmental science, robotics, computer programming, chemistry, etc. Teachers will guide students through the process of the scientific method, writing a scientific paper, and presenting their own research findings via a poster presentation. 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.

POSITIONS AVAILABLE, TENTATIVE DATES, and SALARY*

ALL TEACHERS:

Curriculum Development several meetings throughout the spring
Staff Training (required) June 10-17

- **2-Week Teacher** June 22 – July 3, 2020 \$1,075
- **3-Week Teacher** June 22 – July 10, 2020 \$1,380
- **5-Week Teacher** June 22 – July 24, 2020 \$2,112

*Room and partial board options available with additional responsibilities assigned to cover room and board fees

FOR MORE INFORMATION: <https://www.frostburg.edu/student-life/rmsc/>; 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 will be accepted until all positions are filled. Early application is encouraged – we hope to fill positions by mid-March.

Info for interested science teacher candidates:

- Science Projects
 - Hands-on: Previous projects are available on our website
 - Students present studies at end of program via a poster presentation
 - 2-week project designed for rising 9th grade students (beginning researchers)
 - Introduction to laboratory/experimental research
 - Emphasis on critical thinking and writing thorough responses to guided questions
 - Research question provided to students and used to guide hypothesis development
 - Method provided to students
 - 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, methods, data analysis and conclusion formulation
 - Poster presentations
 - 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
 - Write and revise a science research paper - individual papers scored using a rubric at the end of the summer
 - Present to panel of scientists at end of summer via poster presentation
- 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 and creation of their posters
 - Assist students as they revise papers/posters 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/posters 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 poster 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