

# NC STATE UNIVERSITY

Informed Consent for Participation in Research

## Adult Consent Form for Cohort 2 Participants

**Title of Study: Supporting Implementation of Modeling Instruction in Rural Schools (SIMIRS)  
(eIRB # 24316)**

**Principal Investigator(s): Dr. Soonhye Park, [spark26@ncsu.edu](mailto:spark26@ncsu.edu), 919-515-3591**

**Funding Source: NSF Division of Research on Learning (Discovery Research preK-12)**

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### **What are some general things you should know about research studies?**

You are invited to take part in a research study. Your participation in this study is voluntary. You have the right to be a part of this study, to choose not to participate, and to stop participating at any time without penalty. The purpose of this research study is to gain a better understanding of the critical changes in pedagogical content knowledge (PCK) that occur within science teachers as they progress from low implementation to high implementation levels of Modeling Instruction. We also want to understand how a virtual mentoring platform aids the development of teachers' PCK as they implement Modeling Instruction. We will do this through a 3-week professional development workshop on Modeling Instruction in the summer and 6-8 follow up dates during the school year, semi-structured interviews, online surveys, and video recorded lessons.

You are not guaranteed any personal benefits from being in this study. Research studies also may pose risks to those who participate. You may want to participate in this research because it will provide you with a new pedagogical approach to teaching science, give you access to new curricula as well as an equipment loan program for access to the materials needed to conduct modeling lessons, provide virtual mentoring by a modeling mentor for 2+ years and connect you with other novice modeling teachers in your area. You may not want to participate in this research if you feel uncomfortable with submitting audio and video recordings of your teaching or because of the time commitment.

Specific details about the research in which you are invited to participate are contained below. If you do not understand something in this form, please ask the researcher for clarification or more information. A copy of this consent form will be provided to you. If, at any time, you have questions about your participation in this research, do not hesitate to contact the researcher(s) named above or the NC State IRB office. The IRB office's contact information is listed in the *What if you have questions about your rights as a research participant?* section of this form.

### **What is the purpose of this study?**

The purpose of the study is to gain a better understanding of the critical changes in pedagogical content knowledge (PCK) that occur within science teachers as they progress from low implementation to high implementation levels of Modeling Instruction. We also want to understand how a virtual mentoring platform aids the development of novice modeling teachers' PCK as they implement Modeling Instruction.

### **Am I eligible to be a participant in this study?**

There will be approximately 90-100 participants in this study.

# NC STATE UNIVERSITY

## Informed Consent for Participation in Research

In order to be a participant in this study, you must agree to be in the study and

1. Be a Biology or Chemistry teacher at your school.

You cannot participate in this study if you do not want to be in the study or if you meet one or more of the following:

1. You do not teach Biology or Chemistry.

### **What will happen if you take part in the study?**

If you agree to participate in this study, you will be asked to do all of the following:

1. Participate in baseline data collection during Spring 2023. This will include 3 Qualtrics surveys (15-30 min each), a virtual baseline interview (1 hour), and a video-recorded lesson of your choice (one class period, approx. 90 minutes).
2. Participate in an in-person 3-week professional development (PD) workshop called Modeling Instruction in Summer 2023. This will be approximately 115 hours of training. Your participation in the PD includes an expectation that you attend all sessions and are an active participant in the sessions. Active participation means engagement in the modeling lessons as well as physical products you will create such as the development of lesson plans and ancillary materials you will take into your classroom in the following school years. In addition, you will be assigned a Professional Learning Community (PLC) of 1 mentor and 3 modeling teachers with which you will plan and support each other in your modeling practice.
3. Participate in the 3 Qualtrics surveys (15-30 min each) and one virtual interview (1 hour) at the end of the 2023 summer PD program.
4. Participate in 4, in-person, follow-up PD days during Fall 2023 and Spring 2024 (total time approx. 48 hours).
5. During Fall 2023:
  - Participate in data collection to include 3 Qualtrics surveys (15-30 min each).
  - Video record two modeling lessons and upload these videos to a video feedback platform (GoReact) to receive feedback (3-5 hours).
  - Provide feedback on one person in your PLC's video-recorded lesson via GoReact (4 - 5 hours)
  - Participate in a virtual pre- and post- interview to provide information about your video-recorded modeling lessons (30 min/interview, 1 hour total)
  - Meet with your modeling PLC (virtually) on a biweekly basis (30 min-1 hr per meeting; 4-8 hours).
6. During Spring 2024:
  - Complete all of #5 with your new set of students for the Spring 2024 semester (total time approx. 13 – 21 hours)
  - Lesson plan/CoRe form (1 hr)
  - Participate in one virtual interview (1 hr)
7. During Fall 2024:
  - Complete all of #5 with your new set of students for the Fall 2024 semester (total time approx. 13 – 21 hours).
  - Lesson plan/CoRe form (1 hr)
8. During Spring 2025:
  - Complete all of #5 with your new set of students for the Spring 2025 semester (total time approx. 13 – 21 hours).
  - Lesson plan/CoRe form (1 hr)

# NC STATE UNIVERSITY

## Informed Consent for Participation in Research

- Participate in one virtual interview (1 hr)

Please note that all video-recorded lessons will focus on the teacher and should not include any student's faces. Student privacy will be protected for the duration of the study.

The total amount of time that you will be participating in this study is 2 years.

### **Recording and images**

If you want to participate in this research, you must agree to be audio recorded and video recorded. If you do not agree to be audio recorded and video recorded, you cannot participate in this research.

### **Risks and benefits**

There are minimal risks associated with participation in this research. The risks to you as a result of this research are consistent with the risks associated with participating in public school teaching activities or professional development activities.

The direct benefits to your participation in the research include access to new curriculum, an equipment loan program through The Science House, mentor support for 2+ years, and a network of support for implementation of Modeling Instruction in the form of a Professional Learning Community. In addition, this study includes indirect benefits. The information gained in this study will aid in designing interventions and strategies to support science teachers' implementation of innovative reform-oriented science teaching such as Modeling Instruction, understanding how teachers develop pedagogical content knowledge as they learn a new teaching approach, and identifying the relationships between mentoring and pedagogical content knowledge development.

### **Right to withdraw your participation**

You can stop participating in this study at any time for any reason. In order to stop your participation, please contact Dr. Soonhye Park, [spark26@ncsu.edu](mailto:spark26@ncsu.edu), 919-515-3591. If you choose to withdraw your consent and to stop participating in this research, you can expect that the researcher(s) will redact your data from their data set, securely destroy your data, and prevent future uses of your data for research purposes wherever possible. This is possible in some, but not all, cases.

### **Confidentiality, personal privacy, and data management**

Trust is the foundation of the participant/researcher relationship. Much of that principle of trust is tied to keeping your information private and in the manner that we have described to you in this form. The information that you share with us will be held in confidence to the fullest extent allowed by law.

Protecting your privacy as related to this research is of utmost importance to us. There are very rare circumstances related to confidentiality where we may have to share information about you. Your information collected in this research study could be reviewed by representatives of the University, research sponsors, or government agencies (for example, the FDA) for purposes such as quality control or safety.

How we manage, protect, and share your data are the principal ways that we protect your personal privacy. Data that will be shared with others about you will be de-identified in the transcripts of audio and video recordings and will be anonymous in the online surveys. Neither the audio or video recordings will be used in publications or data reporting.

# NC STATE UNIVERSITY

## Informed Consent for Participation in Research

**Anonymous.** Anonymous data means that at no time can we or anyone else link your identity to the information collected during this research. This means that we cannot identify you at all, even when the data is combined with other information. We will also not seek to identify you using any techniques or technology.

**De-identified.** De-identified data is information that at one time could directly identify you, but that we have recorded this data so that your identity is separated from the data. We will have a master list with your code and real name that we can use to link to your data. When the research concludes, there will be no way your real identity will be linked to the data we publish.

### **Compensation**

For your participation in this study, you have the potential to receive \$4320. Each research or professional development activity that you complete as part of this study will be compensated. Therefore, your total stipend amount will be based on the number of activities that you engage in. You will be paid a portion of the total compensation at the conclusion of the summer professional development and again at the end of each school year.

If you withdraw from the study prior to its completion, you will forfeit the opportunity to earn additional stipend.

### **What if you are an Employee?**

Your participation in this study is not a requirement of your employment at NC Public Schools, and your participation or lack thereof, will not affect your job.

### **Sponsorship and Funding**

This research is funded by National Science Foundation DR K-12. This means that the sponsor is paying the research team for completing the research. The researchers do not, however, have a direct financial interest with the sponsor or in the final results of the study. If you would like more information, please ask the researcher(s) listed in the first page of this form about the funding and sponsorship.

### **What if you have questions about this study?**

If you have questions at any time about the study itself or the procedures implemented in this study, you may contact the researcher, Dr. Soonhye Park, [spark26@ncsu.edu](mailto:spark26@ncsu.edu), 919-515-3591

### **What if you have questions about your rights as a research participant?**

If you feel you have not been treated according to the descriptions in this form, or your rights as a participant in research have been violated during the course of this project, you may contact the NC State IRB (Institutional Review Board) Office. An IRB office helps participants if they have any issues regarding research activities. You can contact the NC State IRB Office via email at [irb-director@ncsu.edu](mailto:irb-director@ncsu.edu) or via phone at (919) 515-8754.

# NC STATE UNIVERSITY

## Informed Consent for Participation in Research

### **Consent To Participate**

By signing this consent form, I am affirming that I have read and understand the above information. All of the questions that I had about this research have been answered. I have chosen to participate in this study with the understanding that I may stop participating at any time without penalty or loss of benefits to which I am otherwise entitled. I am aware that I may revoke my consent at any time.

**Yes, I consent to participating in this research study**

**Printed Name** \_\_\_\_\_

**Signature** \_\_\_\_\_

**Today's Date** \_\_\_\_\_

**No, I do not consent to participating in this research study.**

**Thank you for your consideration.**

**Printed Name** \_\_\_\_\_

**Signature** \_\_\_\_\_

**Today's Date** \_\_\_\_\_