What is the purpose of this study?
TECHFIT is a collaborative program between Purdue University and the College of Charleston. Both institutions will offer the same program to teams of middle school teachers. The program will teach you how to apply STEM knowledge and technology skills for the purpose of building fitness games. The purpose of this study is to assess the impact of this program on increasing middle school teachers’ awareness, knowledge, and interest in technology and its application to addressing societal problems.

What will I do in this study?
The procedures of the TECHFIT program for middle school teachers includes completing all activities in an application-focused, six-day, professional development (PD) workshop, administering a ten-week afterschool (AS) program based on knowledge gained in the PD program, attending a one-day showcase for your students at the same research institution where you completed the PD program, attending one in-service meeting to share experiences and lessons learned, and completing a variety of assessments throughout the process. You will be participating in commercially available fitness games such as Dance Dance Revolution (DDR)™ and Wii™. You will also use a variety of technology components, e.g., push buttons, proximity sensors, switch pads, lights, buzzers, computer software), working in a team and using your creativity to develop a fitness game of your team’s design. The components will be used to perform monitoring and control functions for the game your team designs. The fitness activities in TECHFIT may include basic calisthenics, running, jumping, aerobics, and the like. Photographs may be taken of you completing program activities and may be used by the project team to market and/or demonstrate TECHFIT activities in papers, presentations, and on the TECHFIT website. Assessments will include: a pre and post content assessment, questionnaires about project participation, surveys on opinions about STEM and fitness, and a program follow-up survey several weeks after the program.

NOTE: If you do not agree to allow TECHFIT to use your image for the purposes described, you may not be part of TECHFIT.

How long will I be in the study?
You will participate in a six-day PD program, supervise a ten-week afterschool program for students at your school, attend a one-day showcase for your students, and participate in one-day in-service meeting.

What are the possible risks or discomforts?
You will be working with electronic components that use 24-volt DC power that is generated by an electronic power supply that plugs into a standard 120-volt AC wall socket. This power supply is similar to those used for game systems and small appliances used in most homes. You must listen to and follow all safety practices shared by TECHFIT staff in order to avoid any risk of electric shock. As long as you follow recommended safety practices and instructions, the risk to you is minimal.
You will be participating in commercially available fitness games such as Dance Dance Revolution (DDR)™ and Wii™. Other fitness activities in TECHFIT may include basic calisthenics, running, jumping, aerobics, and the like. If you are able to perform regular exercise, you will not be at increased risk of participation. The teacher application included a question to verify that you would be performing regular exercise prior to the summer PD program. The risk to you is minimal and should not be different from typical exercise activities or participation in the commercially available fitness games or working on science fair projects. Breach of confidentiality is a risk common to almost all research projects. However, the Confidentiality section describes the measures we are taking to minimize this type of risk.

**What happens if I become injured while completing program activities?**

If you feel you have been injured due to participation in this study, please seek treatment from your physician and inform Alka Harriger, TECHFIT Program Manager, at (765) 532-0906. Purdue University or the College of Charleston or the researchers will not provide medical treatment or financial compensation if you are injured or become ill as a result of participating in this research project. This does not waive any of your legal rights nor release any claim you might have based on negligence.

**What are the potential benefits?**

There are no direct benefits to participants. However, there are some indirect benefits. By attending the program, you may see directly that STEM, especially technology, can support fitness in interesting and useful ways.

**Will I receive payment or other incentives?**

You will be paid a $100 daily stipend for participating in the 6-day PD workshop and completing all assessments. You will only receive the full $600 stipend if you complete all six days of the workshop and complete all assessments. Otherwise, the stipend will be prorated to $50 for each day completed as long as you complete all assessments for the full program.

You will be paid an additional $500 stipend for delivering (at least 80% or 16 of 20 sessions) the afterschool program to the minimum number of students based on your teacher team size and completing all assessments. A minimum of 20 students are required for teacher teams of 2-3, and a minimum of 30 students are required for teacher teams of 4-5. If you do not actively participate with your school’s teacher team in delivery of the AS program to the required minimum of middle school students, your AS stipend will be prorated to $10 for each session completed for the required minimum of students as long as you complete all assessments for the full program. If the number of students is below the minimum requirement, the stipend will be reduced by $15 per missing student.

You will be paid an additional $100 stipend for completing the one-day in-service meeting at the research institution. If you do not attend and actively participate in the in-service meeting, the in-service stipend will be forfeited.

The minimum stipend that you may receive is $0 in the event that you fail to complete all assessments. The maximum stipend that you will receive is $1200 for completing all activities in the PD program, all assessments, actively delivering the AS program to the minimum number of students, and actively participating in the in-service meeting.
Are there costs for my participation?
Breakfast, lunches, snacks, and activities for each day of the PD program are covered by TECHFIT. You are responsible for travel costs to the campus before the TECHFIT program begins, for travel costs from the campus after the program ends, and most dinners. There are no additional costs to participate in the PD program; however, you must submit a $50 deposit to secure your acceptance. Half of the deposit will be refunded upon successful completion of all TECHFIT requirements. If you arrive late or leave early for any portion of the program or fail to submit required assessments in a timely manner, you are subject to forfeiture of the deposit and reduction of the stipends as previously described.

Will information about me and my participation be kept confidential?
The project’s research records may be reviewed by the National Science Foundation (the funding agency) and by departments at Purdue University and the College of Charleston responsible for regulatory and research oversight to ensure that my rights are being protected. Your name, address and social security number will be given to a Purdue University business office for the purpose of facilitating payment; however, your individual responses for any part of this study will remain confidential.

We will make every effort to keep your information confidential. You will be given a unique number at the start of the program to use in completing all surveys and questionnaires. This number will be associated with your responses; however, no personally-identifying information about you will be stored with the research data. Select project staff will code the data when storing it in computer files for the purposes of rendering confidentiality to your responses. Coded data will be preserved for the duration of the TECHFIT program, including any extensions based on additional future support.

Throughout any of the TECHFIT program, photographs, videos, and other recordings may be captured of you completing TECHFIT activities. Like the other data, these items will be stored on secured servers that are only accessible by the program manager. The TECHFIT team may use these items to market and/or demonstrate TECHFIT activities in papers, presentations, and on the TECHFIT website. Although your recorded images, videos or voice may be used in these situations, no additional information about you will be provided to preserve your confidentiality. There are no plans to transcribe your audio or video data.

What are my rights if I take part in this study?
You do not have to participate in this research project. If you agree to participate, you can withdraw your participation at any time without penalty. However, if withdrawal occurs prior to the end of the program, all or a portion of the stipends and your deposit will be forfeited. Participation in the research study will not have any impact on your job status.

Who can I contact if I have questions about the study?
If you have questions, comments or concerns about this research project, you can talk to one of the researchers. Please first contact Brad Harriger, Professor of Mechanical Engineering Technology, Purdue University, via telephone (765-494-7515) or email (bcharrig@purdue.edu). Other researchers who may be contacted are: Alka R. Harriger, Professor, CIT Dept, Knoy Hall, Ph: (765) 494-2565, Email: harrigea@purdue.edu; Mike Flynn, Professor, College of Charleston, School of Education, Health and Human Performance, Silcox #314, 66 George Street, Charleston, SC 29424-0001, Ph: (843) 953-5558, Email: mickflyn@cofc.edu; and Susan Flynn, Instructor, College of Charleston,
School of Education, Health and Human Performance, 86 Wentworth, Room 229, 66 George Street, Charleston, SC 29424-0001, Ph: (843) 953-0815, Email: flynns@cofc.edu

If you have concerns about the treatment of research participants, you can contact the Institutional Review Board at Purdue University, Young Hall, 10th Floor, Room 1032, 155 S. Grant Street, West Lafayette, IN 47907-2114. The phone number for Purdue’s Board’s secretary is (765) 494-5942, and the email address is irb@purdue.edu. Alternatively, you can contact College of Charleston Institutional Review Board, 66 George Street, Charleston, SC 29412, Ph: (843) 953-7421, Email: compliance@orga.cofc.edu.

**Documentation of Informed Consent**

I have had the opportunity to read this consent form and have the research study explained. I have had the opportunity to ask questions about the research project and my questions have been answered. I am prepared to participate in the research project described above. I will be offered a copy of this consent form after I sign it.

________________________________________  __________________________
Participant’s Signature                                      Date

________________________________________
Participant’s Name (please print or type)

________________________________________  __________________________
Researcher’s Signature                                      Date

IRB Number 1405014898