



## INTRODUCTION TO MULTIMEDIA DESIGN AND PRODUCTION

### Pilot Program Opportunity for High School Teachers

We are looking for teachers to pilot a STEM-rich multimedia design and production course for high school students. The 9-week unit will introduce students to the fundamentals of multimedia video production through hands-on experiences, collaboration and creative thinking with emphasis on the engineering design process, relevant science content knowledge, and documentation of design decisions and supporting rationale in a design log.

With support from the National Science Foundation, the course has been developed by Arts and Technology faculty at Stevens Institute of Technology in collaboration with Science and Engineering educators at Stevens' Center for Innovation in Engineering and Science Education (CIESE) and technology teachers from New Jersey school districts. **A central goal of the project is to increase the interest and participation of girls and underrepresented groups in STEM.**

Students work in teams to reach creative decisions about a storyline, audio components, animation/visual components and production strategies necessary to produce a short animated video. Students will use production software including Maya, ProTools, and Media Composer in this course. The curriculum advantages the near universal appeal and interest of students in music, video and technology to promote an: (1) understanding of engineering design and physics in the context of multimedia production, and (2) appreciation of the fundamental role of STEM in popular culture.

Teachers will be selected based on the extent to which their intended implementation aligns with project goals. Each will receive a copy of the curriculum, necessary hardware and software tools valued at approximately \$1,500, and a \$250 stipend for implementing the 9-week curriculum with students. Classroom equipment that will be provided includes: a Zoom Microphone, Behringer Powered Speaker System, Sennheiser Headphones with distribution Amplifier mounted in a table top rack with all accessories and cabling.

All selected teachers **must** attend a one-week summer institute **July 9 – 13, 2018** at Stevens that will provide a hands-on experience with the curriculum. There is no fee for attending. Teachers are expected to be on campus 8:30 to 4:30 each day. Lunch will be provided.

During the 2018-19 school year, participating teachers will be asked to:

- Pilot the 9-week unit in at least one class in the Fall 2018 and/or Spring 2019
- Welcome weekly project visitors from Stevens during implementation
- Provide project visitors from Stevens with student design logs to copy for research purposes
- Provide weekly feedback on implementation successes and challenges
- Provide class list with student names and demographic information
- Distribute and collect student and parental consents
- Have students complete an on-line survey at the beginning and end of the course

If you would like to participate, please submit a completed application form to [cieese@stevens.edu](mailto:cieese@stevens.edu). Notifications of acceptance will be made on a rolling basis until all spots are filled.

**Questions:** Please email [cieese@stevens.edu](mailto:cieese@stevens.edu) with any questions you may have.



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### Pilot Program Opportunity for High School Teachers

#### Teacher Application

**Contact Information:** We will need to contact you during the school year and summer.

Name: \_\_\_\_\_  
First Last

Please check applicable box:  
Mr.  Mrs.  Ms.  Dr.

Home Address: Street/City/State/Zip: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Preferred Email Address (school year): \_\_\_\_\_

Preferred Email Address (summer): \_\_\_\_\_

Grade(s) you teach: \_\_\_\_\_ Subject(s) you teach: \_\_\_\_\_

Years of teaching experience: \_\_\_\_\_ Undergraduate major: \_\_\_\_\_

Graduate specialization (if applicable): \_\_\_\_\_

School Name: \_\_\_\_\_

School Address: Street/City/State/Zip \_\_\_\_\_

Why do you want to participate in the opportunity? Please be specific.



**Teacher Application (continued)**

Please provide information about the course(s) in which the *Introduction to Multimedia Design and Production* curricular materials will be implemented. It may be implemented in more than one course during the school year. Please also indicate approximately when during the school year the materials will be implemented for each of the courses.

Course #1 Name: \_\_\_\_\_

Is this course (circle one):      An elective?      Required?

What grade level(s) typically take this course? (circle all that apply)

9      10      11      12

Typically, the number of students in the course: \_\_\_\_\_

Typically, percentage of student that are: male \_\_\_\_\_ female \_\_\_\_\_

Length of course (Number of weeks): \_\_\_\_\_

Years teaching this course: \_\_\_\_\_

I plan to implement *Introduction to Multimedia Design and Production* curricular materials in this course during this time period (circle one):

Fall 2018      Spring 2019

Course #2 Name: \_\_\_\_\_

Is this course (circle one):      An elective?      Required?

What grade level(s) typically take this course? (circle all that apply)

9      10      11      12

Typically, the number of students in the course: \_\_\_\_\_

Typically, percentage of student that are: male \_\_\_\_\_ female \_\_\_\_\_

Length of course (Number of weeks): \_\_\_\_\_

Years teaching this course: \_\_\_\_\_

I plan to implement *Introduction to Multimedia Design and Production* curricular materials in this course during this time period (circle one):

Fall 2018      Spring 2019



**Teacher Application (continued)**

If selected, I understand that my commitment for the *Introduction to Multimedia Design and Production* unit is to:

1. Attend each day of the summer institute (in its entirety) July 9-13, 2018 from 8:30 am – 4:30 pm
2. Pilot the 9-week unit in Fall 2018 and/or Spring 2019
3. Welcome weekly project visitors from Stevens during implementation
4. Provide project visitors from Stevens with student design logs to copy for research purposes
5. Provide weekly feedback on implementation successes and challenges
6. Provide class list with student names and demographic information
7. Distribute and collect student and parental consents
8. Have students complete an on-line survey at the beginning and end of the course

I understand that I will receive a copy of the curriculum, equipment needed to implement the 9-week unit in my classroom, and a \$250 stipend for implementing the 9-week curriculum with students. I understand that if I implement the curriculum in both the Fall 2018 and Spring 2019 that I am eligible to receive a stipend of \$250 for each semester’s implementation.

Teacher Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Principal Approval**

Principal’s Name: Ms. Mr. Dr. (circle one) \_\_\_\_\_

First Name

Last Name

Principal’s Telephone Number: \_\_\_\_\_

Principal’s Email Address: \_\_\_\_\_

I understand that the *Introduction to Multimedia Design and Production* curricular materials will be used by this teacher in the identified high school course on this application during the Fall 2018 and/or Spring 2019.

Principal Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Please return the completed application to:**

CIESE

Stevens Institute of Technology  
Castle Point on Hudson, Hoboken, NJ 07030

Fax: 201-216-8069 Phone: 201-216-5375

Email: [ciese@stevens.edu](mailto:ciese@stevens.edu)