



Cover Page

Proposal Title: Digital Video Production

Proposal Abstract

This proposal is designed to allow students of the University of Washington access to a full range of high end video and audio equipment suitable for creating and documenting advanced video based projects. This equipment is chosen to give the highest recording quality for even moderately experienced users. This proposal also includes computer workstations used to support this new equipment.

School/College/Unit: CARTAH

Date: 9/27/2000

	Primary Contact	Approved By	Budget Coordinator	Concurrence
Name	Richard Karpen	Julie Stein	Mike Furr	Steve Graham
Title	Director/Professor	Divisional Dean	Program Assistant	Director
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By entering information above, it is assumed support for this request has been given; signatures are not required

Please answer the following questions

1. What is the total amount of funds being requested? \$ 70,285
2. Is this your first application for funding? Yes No
3. How many UW students have access to your resources? All Undergraduate Students
All Graduate/Professional Students
4. How will students access these resources if funded? Pick the best answer, and explain in the "Access" section of this proposal. No Restrictions
 Campus unit students get priority
 By Appointment only
 No access
5. Where will proposed resources be located? 35 Thomson Hall
6. Is this funding proposal student-initiated? Yes No



Please describe your proposal using the following guidelines. Limit your discussion to 6 pages, including budget. Feel free to contact the STFC with any questions (techfee@u.washington.edu).

Background

Discuss the context for the proposed project. Describe the population of students in your School/College/Unit and how they currently use technology to achieve their educational, teaching, and research goals.

CARTAH has helped students from many departments to create original video and audio works, including several award winning works. The number of student based video projects, both in absolute numbers and as a percentage of all CARTAH projects, has increased dramatically this past year. With the help of several grants from the Student Technology Fee, CARTAH has been able to provide help in the editing and post-production stages of these projects. However, students are also requesting camera, sound, and lighting equipment to help in the production stages of these projects.

Benefits to Students

Discuss how students will benefit from this proposal. This might include how this proposal will increase students’ marketability for future careers; how this proposal will meet computing needs not currently met by existing resources; how this proposal will enhance students’ education, teaching, and research activities.

This proposal is designed to give students access to high quality video and audio recording equipment. This equipment will be well suited to record live performances and to create original video works. This proposal has three basic components; Two on-location camcorder kits, one studio camcorder kit, and supporting computer equipment.

The two on-location/outdoor video camcorder kits each consist of a Canon GL-1 DV camcorder, a 'shotgun' mic kit with mic boom, and a tripod. These kits are rugged and easy to use, and can also be used as additional cameras for studio work. There will also be two additional mics available for use with these kits, a lavalier (lapel pin) microphone useful for interviews, and a SoundField ST250 portable microphone system, which is a specialized microphone system designed offer unique spatialization recording abilities which will become increasingly important with the advent of 5.1 and other multi-channel sound formats. Unlike it's 'big brother' the SoundField MkV, the ST250 can be effectively set up and used on location, and is easy to configure even for inexperienced users.

The studio/concert video camcorder kit consists of a JVC Gy-dv500u DV camcorder, SoundField MkV microphone system, tripod, and lighting kit. The JVC Gy-dv500u is a true professional DV format camcorder. The MkV mic and its SoundField processor/preamp will allow students to make a recording into the ‘B’ format. The B format recording can then be used ‘render’ a recording into any of several multi-channel formats, including simple stereo and 5.1 surround. This makes recording live performance to 5.1 DVD video, and the emerging DVD-Audio formats possible, allowing students to make the most of these new technologies.

The supporting computer equipment consisting of one Macintosh G4 video editing station and video software, two Macintosh G4 500MHz workstations, and two Dell PIII 933MHz



workstations. The G4 video editing station will replace one of the existing Macintosh video station, which will then be used as a video rendering machine. This will allow complex video effects on one project to be generated, without affecting workflow for other projects. The two Macintosh and PC workstations will be used to replace current workstations (two STF purchased Mac G3 300MHz, two CARTAH purchased PII 400MHz) that are used for digital imaging and animation, and that are often used to support video based projects by creating titling and special effects.

Access

Describe who will be using or will have access to the resources being proposed. If this is not a general access resource (i.e. available to any registered student), discuss what restrictions will be placed on resource use. Include hours of availability. Note that the Tech Fee Committee strongly encourages proposals to include a mechanism to allow all students access.

Access to CARTAH is available to all students, faculty and staff of the University of Washington who submit a structured research proposal. This can be done simply from CARTAH's web site. Students are offered help in constructing cogent research proposals, and virtually all student research proposals are accepted. CARTAH is open from 8:30 to 4:30 every weekday.

Resources

Discuss currently available financial, personnel, and space resources devoted to technology and level of support. Include dollar amounts if possible. Describe how these resources will leverage this proposal if funded.

CARTAH consists of a three working labs in three buildings, 35 Thomson Hall, B015/B025 Communications, and 12 Music Building. CARTAH provides three permanent technical support staff, a permanent office support person, three Graduate Student Assistants, and a number of workstudy students, all available to advise students and support the labs. These labs already have extensive video, graphics, audio, and animation facilities funded through industry grants, CARTAH and univeristy funds, as well as previous STF grants. New equipment would be integrated into these labs, and would enhance an already successful program of independent student research. CARTAH also has an annual supplies budget of \$35,000 used to support these labs.

Timeline

Provide a time-line showing how the proposed project can be completed during the support period. Note that the STFC is flexible regarding implementation delays due to issues such as space renovation.

CARTAH proposes to acquire the items listed as soon as funds become available, and to make the new resources available as soon as it arrives, with all equipment available by Fall, 2000.



Student Technology Fee – University of Washington

techfee@u.washington.edu • news:uwash.techfee • http://depts.washington.edu/techfee

Funding Proposal

Budget

Present a detailed budget for the requested funds showing items, quantities, and prices of required material. Please be aware that the STFC does not fund furniture, ongoing costs including paper and toner, or maintenance. The STFC does fund maintenance contracts on machines purchased in advance and does fund software. The STFC will fund servers and related services but will not fund ongoing costs related to them.

Hardware			
Item (specs)	Cost Per Item	Quantity	Subtotal
Canon GL-1 DV camcorder	\$3,000.00	2	\$6,000.00
JVC Gy-dv500u DV camcorder	\$5,500.00	1	\$5,500.00
Sony DSR-20 DVCAM recording deck	\$3,100.00	1	\$3,100.00
Tota/Omni Basically 3 Lighting Kit	\$1,555.00	1	\$1,555.00
Sennheiser ME-64K6 Shotgun Microphone	\$350.00	2	\$700.00
Sennheiser MKE2-60 Lavalier Microphone	\$440.00	1	\$440.00
Sennheiser ME-62 Omni-directional Microphone Capsule	\$140.00	1	\$140.00
Sennheiser MZW-64P Microphone windscreen	\$30.00	2	\$60.00
Gitzo G1552 Carbon Microphone Boom 243	\$195.00	2	\$390.00
Bogen 3001 Tripod w/ head	\$185.00	3	\$555.00
Bogen 90417 Yoke Assembly for boom	\$40.00	2	\$80.00
SoundField markV single point source mic system	\$8,500.00	1	\$8,500.00
SoundField ST250 portable mic system	\$6,000.00	1	\$6,000.00
Apple G4 500MHz 1GB RAM 18GB SCSI HD Cinema Display	\$9,590.00	1	\$9,590.00
Apple G4 500MHz 512MB RAM 30GB ATA Drive 20" Monitor	\$4,670.00	2	\$9,340.00
Dell 420 PIII 900MHz 512MB RAM 30GB ATA Drive 20" Monitor	\$4,720.00	2	\$9,440.00
Subtotal: Hardware			\$61,390.00
Software			
Item (specs)	Cost per item	Quantity	Subtotal
Media Cleaner Pro Compression Suite	\$1,300.00	1	\$1,300.00
Subtotal: Software			\$1,300.00
Miscellaneous			
Item (specs)	Cost per item	Quantity	Subtotal
Miscellaneous Camera Bags and Cases	\$450.00	1	\$450.00
Miscellaneous Cables	\$750.00	1	\$750.00
Subtotal: Miscellaneous			\$1,200.00
Subtotal			\$63,890.00
Tax			\$5,494.54
Shipping			\$950.00
Total			\$70,284.54

You may use the table above, or insert your own spreadsheet.



Include justification for any specialized items below. Indicate the source and amount of any supplemental or matching funds to be obtained for this proposal. It is assumed that actual hardware purchased may differ in order to take advantage of price drops and that educational discounts will be utilized where possible.

Endorsements: Departmental

List all participating units and include the endorsements of the supporting deans and/or vice-presidents who will serve as the co-leaders of the proposed initiative. The STFC supports efforts to provide partial funding or external support for projects. Please describe any efforts in this area.

CARTAH is the only participating unit. CARTAH is an independent computing center within the College of Arts and Sciences. This proposal is endorsed by CARTAH's director, Professor Richard Karpen.



Endorsements: Student

Add student-derived data supporting student need. This might include testimonials, polls, data regarding current use of services or student preferences. Discuss the choice of computing platforms (UNIX, MacOS, Windows) and relation to student needs.

CARTAH has over 60 current video projects. Many of these projects would greatly benefit from this proposal, and would allow students to document works as well as create new works. Below are a small sample of projects that would benefit from this proposal.

Gregory Glynn, Sculpture, gglynn@u.washington.edu

I would like to edit the video taped documentation of performances and sculpture that I have taken over the durration of my undergraduate study. I will take segments of all the video documentation I have and make a single tape that fluently demonstrates the work I've done. When finished, I hope to use this video in a portfolio for application to graduate school as well as for grants and scholarships.

Kyle Konis, Architecture, dublin55@u.washington.edu

The project is to document the crafting of a ceramic vessel using digital video. The experience of the person throwing the vessel on the wheel will be tactile: wet and slippery and moving, the question is how digital media can be used to convey this experience to the viewer. Everyone has a library of sensory memory stored up which can be triggered by images or sounds or stories and what a person hasn't experienced specifically can be realized through imagination. The project is my work for Anne Hayden Stevens' ARCH 498 class, 'Freehand Drawing in the Digital Realm.'

Barbie Hall, Geography & Latin American Studies, barbie@u.washington.edu

An eight-segment documentary digital video about the history of diversity at the University of Washington. Pieces will include interviews, photos, sound bites, and voiceovers of UW alumni and present students and faculty and their experiences on campus. The documentary will cover the Arts, International Collaboration, The Odegard Years, Women, Sports, the 21st Century, a piece TBD by UW Administration, and a compilation of the previous seven. Please see our website for further details: <http://students.washington.edu/mosaicuw/Pro/documentary.htm>

Concurrence

Please list contact information for faculty and students supporting this proposal. Signatures are not required. It is assumed that the individuals listed below are aware of and support this proposal.

Name	Affiliation	Mailstop	E-Mail	Telephone



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Funding Proposal

Thank you. When you are ready to submit your proposal, please go to the STF website (<http://depts.washington.edu/techfee>) for further instructions. Do not mail this proposal in hardcopy form.

The STFC is interested in working with departments to bring technology to students; feel free to contact us (techfee@u.washington.edu) with any questions regarding your proposal.