

**Organization Grant Application**  
**National Endowment for the Arts**
**Composers Program**

Applications must be submitted in triplicate and mailed to the  
 Grants Office/COMP, National Endowment for the Arts,  
 2401 E Street, N.W., Washington, D.C. 20506

**I. Applicant organization**

(name and address with zip)  
 Center for Computer Research in  
 Music and Acoustics (CCRMA)  
 Stanford University  
 Stanford, California 94306

**II. Category under which support is requested.**

Centers for New Music Resources

**III. Period of support requested**

Starting	June	1,	1980	Ending	May	30,	1981
	month	day	year		month	day	year

**IV. Summary of project description**

Since 1966 CCRMA has been dedicated to the development of the computer as a new musical medium. CCRMA is concerned with the advancement of knowledge and technique in creating musical timbres and spatial environments that are of value to the most demanding of composers. In recent years, CCRMA has initiated a program to develop the ways in which the computer can interact with natural, acoustic sounds. This both extends the medium of computer music and expands the possibilities of instrumental technique. ~~Many of the most recent advances~~ CCRMA's capability have been made possible through the development of real time digital signal generation/processing facilitated by a special purpose signal processor funded by a grant from NEA in 1975, the Systems Concepts Digital Synthesizer.

*Many*  
 The major portion of the funds requested from NEA *will be used* is to upgrade the digital synthesizer, ~~to be better able to provide a musically interactive environment at CCRMA.~~

*This will help create  
 This will help CCRMA provide an more musically  
 viable interactive environment, interaction will  
 be more suited to the needs of today's composers.*

V. Estimated number of persons expected to benefit from this project over 30

**VI. Summary of estimated costs (recapitulation of budget items in Section IX)**
**A. Direct costs**

Salaries and wages \_\_\_\_\_

Fringe benefits \_\_\_\_\_

Supplies and materials \_\_\_\_\_

Travel \_\_\_\_\_

Equipment \_\_\_\_\_

Other \_\_\_\_\_

Total costs of project  
 (rounded to nearest ten dollars)  
 \$ \_\_\_\_\_

84,500

7,500

Total direct costs \$ 92,000

**B. Indirect costs**

\$ - - -

Total project costs \$ 92,000

**VII. Total amount requested from the National Endowment for the Arts**

\$ 46,000

**VIII. Organization total fiscal activity**

Actual most recent fiscal period

Estimated for next fiscal period

A. Expenses to be submitted

1. \$ \_\_\_\_\_

2. \$ \_\_\_\_\_

B. Revenues, grants & contributions

1. \$ \_\_\_\_\_

2. \$ \_\_\_\_\_

Do not write in this space