THE INFINITY PROJECT℠

Houston Endowment, Inc.
Grant Request

Administered by

The Infinity Project
The Caruth Institute for Engineering Education
P.O. Box 750335
6116 N. Central Expressway, Suite 303
Dallas TX 75206
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Email : ipmail@infinity-project.org

THE INSTITUTE FOR ENGINEERING EDUCATION AT SMU

The Texas Engineering Education Pipeline

THE INFINITY PROJECT℠

Houston Endowment Grant Program
Application

BACKGROUND
The Infinity Project is a "turn-key" solution for high schools and middle schools to incorporate high-tech engineering education into their curricula. The Houston Endowment Inc. Grant Program was established to support this important educational initiative. The purpose of this program is to award one-time grants of ***up to*** $7,500 to eligible Texas schools to implement The Infinity Projects' teacher training and engineering curriculum in Region IV Houston area secondary schools. The intent of this program is to better prepare students in math, science, and engineering.

GRANT RESTRICTIONS
The funds made available through this grant program may only be applied to the following approved expenses:
1. Week-long professional development and travel expenses for one educator ***or*** professional development for two educators without travel expenses. Qualifying travel expenses will be limited to $750.
2. The Infinity Project Technology Kit and other supplies required by The Infinity Project.
3. The Infinity Project textbooks and student manuals.

ELIGIBILITY REQUIRMENTS
To be eligible for this grant, your school must meet the following criteria:

1. **School must have applied and been admitted to The Infinity Project.**
2. Texas public school located in Region IV Houston area.
3. School must have identified a qualified teacher and population of students for the Infinity Project's engineering curriculum.
4. Principal agrees to participate in qualitative and quantitative student assessments associated with The Infinity Project.

Pre and Post Qualitative Student Assessments
Infinity will provide instructor with a 10-minute survey to be completed by students in The Infinity Project class and a Control Group. Infinity Instructor will conduct assessments in the fall at the beginning of class and in the spring at the end of class. The assessment will provide information on math and science course enrollment, attitudes about math, science, or engineering related courses; standardized test scores; and college plans. Student names and other personal information **will not** be associated with the assessment.

Qualitative Assessments
Principal will provide standardized test scores (Math & Science TAKS) of Infinity Project students and a Control Group. Information will be utilized to assess impact of Infinity Project curriculum on student achievement in math and science.

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APPLICATION:

A. Date of this application _____

B. Date the school was admitted to the Infinity Project_____

C. Name of the School _____

D. Complete address of the school _____

_____

_____

E. Principal Name _____

F. Principal e-mail address _____

G. Instructor Name(s) and Title (s) _____

H. School Administrative Contact for Student TAKS Data _____

I. School Administrative Contact e-mail address _____

J. Office phone number (area code) (_____)_____

K. FAX number (area code) (_____)_____

L. E-mail address: _____

M. Web page URL: _____

Eligibility

Describe the student population you are targeting for this engineering course.

Estimated number of course sections offered	
Estimated total number of students enrolled in the course	
Estimated number of female students enrolled in the course	
Estimated number of minority students enrolled in the course	

Describe how you will evaluate the success of the Infinity Project's curriculum on student learning in your school.

_____

_____

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_____

THE INFINITY PROJECT

Mail, Fax, or Email this application and purchase requisition form to:

The Infinity Project
The Caruth Institute for Engineering Education
Southern Methodist University
P.O. Box 750335
6116 N. Central Expressway, Suite 303
Dallas, Texas 75206

Tel: 214-768-4038 Fax: 214-768-8874

Email: ipmail@infinity-project.org URL: www.infinity-project.org

Deadlines

1. Schools may apply at any time prior to June 30 for the academic year.
2. An estimate of travel expenses must be submitted by June 30.
3. All qualifying travel expense receipts must be submitted on or before September 6.

THE INFINITY PROJECT

High School

Infinity Purchase Requisition Form

_____
(Name of School)

Requests The Caruth Institute for Engineering Education to directly purchase the approved items in the quantities listed below

Item	Quantity Requested	Total Cost
Option 1: Professional Development Registration ($750) and approved Travel Expenses (not to exceed $750) for **one instructor**. **<u>Travel & lodging expenses will be incurred by the instructor and reimbursed through the grant upon submission of original itemized receipts.</u>**		
***OR* Option 2:** Professional Development Registration for **two instructors** ($1,500). Travel & lodging **not included**.		
Engineering Our Digital Future Textbook – $62.63 each		
Student Manual - $25.00 each ***Requires 1 manual per student***		
Infinity Project Technology Kit - $399 per kit ***Requires 1 kit per computer. Students may be paired in teams of two per computer.***		
Shipping & Handling		**$300.00**
Total Cost Not to Exceed $7,500.00		**$7500.00**

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Ship to Address:

Attention	**School**	**Address**
City	**State**	**Zip**

Approved by: _____

(Principal or designee)

_____

Dianna L. McAtee, Director, Academic Relations

Return this form to:

The Infinity Project
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Southern Methodist University
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Dallas, TX 75206

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Middle School

Infinity Purchase Requisition Form

_____
(Name of School)

Requests The Caruth Institute for Engineering Education to directly purchase the approved items in the quantities listed below

Item	Quantity Requested	Total Cost
Option 1: Professional Development Registration ($750) and approved Travel Expenses (not to exceed $750) for **one instructor**. . **<u>Travel & lodging expenses will be incurred by the instructor and reimbursed through the grant upon submission of original itemized receipts.</u>**		
***OR* Option 2:** Professional Development Registration for **two instructors** ($1,500). Travel & lodging **not included**.		
Engineering For Today's Middle School – Series I • Introduction to Engineering Design • Engineering in the Natural World • Sound Engineering – Making Great Sounds • Robots from Concept to Completion • Rocketry: Achieving Liftoff I • Rocketry: Achieving Liftoff II • Imaging the Human Body Student Manual – $25.00 each ***Requires 1 manual per student***		
Engineering For Today's Middle School – Series II • Introduction to Engineering Design • Engineering our Planet's Future • Digital Imaging – Pixel Yourself in Digital Domain • Power – Watt's Up in Power • Machines – Making it all Work • Structures – The Roofs Over Our Heads • Engineering the Human Machine Student Manual – $25.00 each ***Requires 1 manual per student***		

Infinity Project Technology Kit - $399 per kit ***Requires 1 kit per computer. Students may be paired in teams of two per computer.***		
Lego Mindstorms LME Software & Site License - $322.95 ***Requires 1 Site License for Campus***		
Lego Mindstorms NXT Kit - $265.95 per kit ***Requires 1 kit per three students***		
Lego Mindstorms Education Resource Set - $75.95 per kit ***Requires 1 kit per three students***		
Shipping & Handling		**$300.00**
Total Cost Not to Exceed $7,500		**$7,500.00**

Ship to Address:		
Attention	**School**	**Address**
City	**State**	**Zip**

Approved by: _____

(Principal or designee)

_____

Dianna L. McAtee, Director, Academic Relations

Return this form to:

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Southern Methodist University
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As a member of The Infinity Project and recipient of The Houston Endowment Grant, the Principal and Infinity Project instructor agree to participate in the following:

- **Pre and Post Qualitative Student Assessments**
  Infinity will provide the instructor with a 10-minute survey to be completed by students in The Infinity Project class and an additional Control Group within the school. Infinity Instructor will conduct assessments in the fall at the beginning of class and in the spring at the end of class. The assessment will provide information on math and science course enrollment, attitudes about math, science, or engineering related courses; standardized test scores; and college plans. Student names and other personal information **will not** be associated with the assessment.

- **Quantitative Assessments**
  Infinity requests the assistance of the school principal in obtaining standardized Math and Science test scores of Infinity Project students and a Control Group. Information will be utilized to assess the impact of Infinity Project curriculum on student achievement in math and science.

- **Pre and Post Curriculum Survey**
  Infinity will survey instructors in the fall and spring to gain information on 1) format and use of instructional materials and 2) classroom experience associated with implementation of the curriculum.

- **School Information Updates**
  Infinity will periodically send electronic requests to instructors asking for information updates pertaining to: contact information, school profile, course number, course name, course enrollment and demographics, and number of computers/technology kits utilized for course.

- **Professional Development**
  Instructors planning to implement The Infinity Project curriculum must complete professional development training at an approved institute site **prior** to teaching the course. Additional instructors interested in offering the program must **also** complete training prior to teaching the course.

_____ _____
Principal Date

_____ _____
Infinity Project Instructor Date

Mail, Fax, or Email this form to:

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